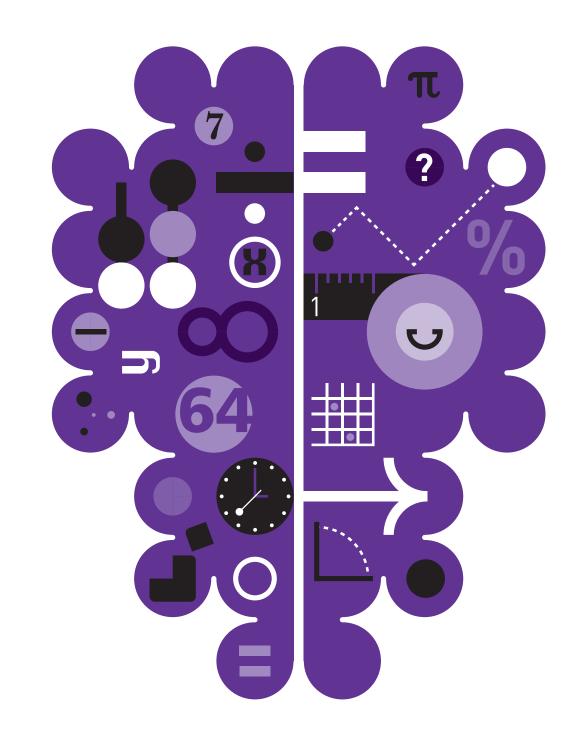
# Schofield&Sims

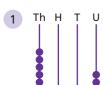




**Name** 

12 10ps + six 2ps = £1.82

#### Answer



Write in words the number shown on the abacus.

six thousand and thin	rteen
2 17 + 8 + 16 =	41
3 9653 – 601=	9052
4 (8 × 7) + 5 =	61
$(56-8) \div 8 =$	6
6 $\frac{7}{10}$ of 100g =	<b>70</b> g
7 $1\frac{3}{4}h = min$	<b>105</b> min
8 f1.45 = 5ps	<b>29</b> 5ps
9 4km 350m = m	4350m
10 850g + $\mathbf{g} = 1\frac{1}{2}kg$	<b>650</b> g
11 f7.09 = p	<b>709</b> p

В		Answer
1	Write in digits the number twelve thousand and eight.	12 008
2	How many groups of 9 are there in 6 sixes?	4
3	What is the difference in pence between $f_{\overline{5}}^{1}$ and $f_{\overline{4}}^{1}$ ?	5p
4	How many tens are equal to 1070?	107
5	Find the total of 53p and £1.37.	£1.90
6	By how many grams is $\frac{1}{2}$ kg heavier than 280g?	220g
7	Find the cost of nine hairbands at 13p each.	£1.17
8	How many millimetres are there in 10.7cm?	<b>107</b> mm
9	How much change from 50p after spending 17p and 16p?	17p
10	Change to 24-hour clock times.	
	a 9:35 a.m.	a 09:35
	<b>b</b> 8:50 p.m.	b 20:50
11	Find the smallest number which	

will divide by both 6 and 8 without

12 What sum of money when multiplied

a remainder.

by 7 equals £1.12?

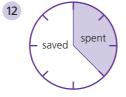
	Schofield & Sims
C	Answer
1 In a box were 48 cards. How many cards were there in seven boxes?	336
2 In the number 7479 how many times is the 7 marked x greater than the 7 marked y?	100
3 The temperature was 4°C and dropped by 7°C. How many degrees warmer than –5 is the new temperature?	2°C
The rectangular card is cut into two equal parts along a diagonal. Find the area of each part.	16cm²
8cm	
5 What are the next two numbers in this sequence?	
$\frac{1}{10}$ , 1, 10, $\square$ ,	1001000
6 Find the difference in cost between 12 items at 3p each and 12 items at 5p each.	24p
7 A bus leaves its station at 8:40 a.m. and arrives at its destination at noon. How long does the journey take?	3h20min
Price of fabric  A £3.96 per metre B £4.18 per metre Definition of the per metre B £4.18 per metre Than fabric A?	e 22p

8	Price of fabric	By how muc is fabric B
	A £3.96 per metre B £4.18 per metre	more expens
		than fabric A
9	The mass of cereal in	a box is 425g.

Find in kilograms and grams the mass of the cereal in 10 boxes. 4kg **250**g

10 The minute hand of a clock turns from pointing to the number 2 to the number 8. Through how many degrees has it turned?

11 A cheesecake is cut into 12 equal pieces. What fraction of the cheesecake is seven pieces?



The diagram shows how Isla used her prize money.

a What fraction did she spend?

**b** The prize was £40. How much did she save?

180°

b £25

24

**16**p

**17** 10ps

#### SECTION 1 | Test 2

**Answer** 

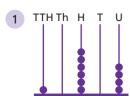
£9.60

**40**l

15

10min

#### Α **Answer**



Write in words the number shown on the abacus.

and four

ten thousand six hundred

2 27 + 6 = 20 +

3 78 × 6 =

4 872 ÷ 8 =

5 f1.68 - 96p = p

6 27 quarters =

7  $\frac{1}{4}$  of \$4.32 =

8 2080m = km m

9 4kg 700g = g

10 f10 - f0.82 =

**11** 12 462 – 2300 =

2km

£9.18

\$1.08

12

The time on the clock is 7min slow. Write the correct time using a.m. or p.m.

5:46 p.m.

#### **Answer**

1 Find the missing number. 5000 + 1 + 7 = 5087

afternoon

- 2 Write the number 145 using Roman numerals.
- 3 Share £1.56 equally among six people. How much each?
- 4 Write 3.45m as centimetres.
- 5 Which of these numbers divide by 8 without a remainder? 12, 28, 32, 44, 56, 68
- 6 Find the value of  $a \frac{1}{5}$  of £35  $\frac{4}{5}$  of £35.
- 7 Write 3596 to the nearest 1000.
- 8 How many grams in  $2\frac{1}{4}$ kg? **2250**g
- 9 Find the change from £1 after spending 19p and 17p.
- 10 What is the mean average of 6cm, 9cm, 7cm and 10cm?
- 11 Change to 12-hour clock times. a 09:05 **b** 16:48
- 12 10 crayons cost £1.30. Find the cost of one crayon.
- 9:05 a.m. 4:48 p.m.

century. How many runs did he score? \_

1 A cricketer scored 12 runs short of a

C

13

468

109

**72**p  $6\frac{3}{4}$ 

**80**m

**4700**g

10 162

80

**CXLV** 

**26**p 345cm

32, 56

4000

**64**p

8cm

**13**p

a £7

b f28

- 2 37 × 9 = 333 Write the value of  $37 \times 90$ . 3330
- 3 The price of fish is £6.40 per kg. What is the cost of 1kg 500g?
- 4 How many 10cm strips can be cut from a length of 5m 60cm? 56
- 5 There are 20l in the petrol tank of a car. If it is  $\frac{1}{3}$  full, how many more litres will it hold?

6 Find the total value of these coins. £1.61

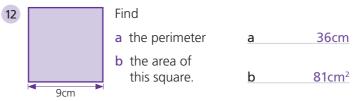


- 7 A school holiday started on 26 March and ended on 9 April. How many days' holiday were there?
- 8 A plane is flying due east. It turns clockwise through half a right angle. Through how many degrees does it turn? 45°
- The diagram shows how three children shared a prize of £40. How much did each child receive?

Sophie -	Sunil
----------	-------

Josh £5 Sophie £15 Sunil £20

- 10 A train leaves at 17:50 and arrives at midnight. How long does the journey take in hours and minutes? 6h
- 11 The price of butter increased from £1.29 to £1.34 per 500g. How much extra is paid for 6kg? **60**p



A	Answer
---	--------

1 T U t

Write in words as a decimal the number shown on the abacus.

thirty point six

C

- 2 300 + 70 + 9 tenths.
  Write the answer as a decimal.

  370.9

  3 13 624 + 5040 = 18664

  4 Round 12 467 to the nearest 10.

  5 £8.70 = 10ps

  6 20.4cm = 10pm

  204mm
- 6 20.4cm = mm 204mm 7 36.9 × 10 = 369 8 59 ÷ 10 = 5.9
- 9
   10.7 = 1 tenths
   107 tenths

   10
   200g + 1g = 0.5kg 300g

   11
   2.3l = 1ml 2300ml

# B Answer



12 7, 4, 1, -2, ,

What decimal fraction of the circle is

- a shadedb unshaded?
- a 0.6 b 0.4
- 2 Write as a decimal, forty and nine tenths.

40.9

8

-5 -8

- 3 Of these fractions  $\frac{3}{10}$ , 0.5,  $\frac{1}{4}$ , 0.2 which is
  - **a** the largest

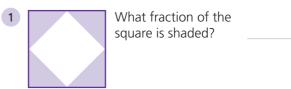
a 0.5

**b** the smallest?

- b 0.2
- 4 Find the mean average of 6, 8 and 10.
  - O. \_\_\_\_\_
- Write 300 using Roman numerals.Find the cost of 100g rice at 95p
- CCC
- per ½kg.

  7 What length is 6 times longer
- \_\_\_\_\_19p
- than 4.5cm?
- **27**cm
- 8 How many months in the year have 31 days?
- \_\_\_\_\_\_7
- 9 Share £2.00 exactly among eight children. How much each?
- **25**p
- Write each of these quantities to the nearest whole unit.
  - a 59.8km a 60km b 40.3l b 40l
- 11 What number is 8 less than zero?
- 12 How many hours and minutes from 08:50 to 11:00?
- 2h 10min

Answer



- 2 Noah has 40p and Ryan has  $\frac{2}{5}$  of this amount. How much have they altogether? \_\_\_\_\_\_\_56p
- 3 On a coordinate grid point A is at (3, 4). It is then moved two squares to the right. What are its new coordinates? (5 , 4)
- 4 Find in millimetres the difference between the longest and shortest of these lines. 37mm



- 5 Lily bought a book for £1.75 and gave seven 5ps and the rest in 10ps.
  How many 10ps did she give?

  14 10ps
- 6 By how many grams is a mass of 1.4kg heavier than a mass of 850g? 550g
- 7 What is the date a week later than Christmas Day (25 December)? 1 January
- 8 Of these angles which two when added together make two right angles?

83° 124° 35° 107° 56°

124° 56°

9 Material for a dress costs £5.50 per metre. Find the cost of

**b** 70cm.

- per metre. Find the cost of a 10cm
- a 55p b £3.85
- 10 Two cans each hold 750ml. By how many millilitres is their total volume less than 1.8l?
- 300ml

**20**p

A shopkeeper bought six pens for 95p.
He sold them to make a profit of 25p.
For how much did he sell each pen?



a its perimeter

a 24m
b its area.

b 32m<sup>2</sup>

-8

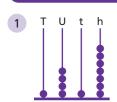
## SECTION 1 | Test 4

b 0.35

€2.16

26

#### Α **Answer**



Write in words as a decimal the number shown on the abacus.

#### fourteen point one seven

2	8.03 = 8 +	3

3

C

6 Write 
$$\frac{1}{4}$$
 as a decimal.  
7 69468 – 3400 =

9 Find in grams

a 0.1 of 1kg **b** 0.7 of 1kg.

10 Write as a decimal 503 hundredths.

5.03

11 Round 346 295 to the nearest 1000.

#### 0.08

#### В **Answer**

- 1 Write as a decimal,  $30 + \frac{7}{10} + \frac{4}{100}$ . 30.74
- 2 What is the value in pence of the digit underlined?
  - a £100.40 **b** £15.06

- **40**p
- Write in metres and centimetres 109.46m.
- 109m **46**cm
- 4 Write the missing signs +, -, × or ÷ in place of  $\bullet$  and  $\blacktriangle$ .

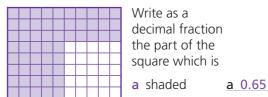
  - $9 \bullet 6 = 3 \blacktriangle 5$
- 5 Write as a decimal 15 tenths 7 hundredths.
- 1.57 6 Decrease 0.5l by 150ml. 350ml
- 7 How many hours and minutes from 2:25 p.m. to 4:05 p.m.?
- **1**h 40min
- 8 Write the missing numbers.
  - $a \frac{8}{12} = \frac{1}{3}$  $b \frac{21}{24} = \frac{1}{8}$

- 9 Divide £15 by 6 exactly.
- £2.50 51cm<sup>2</sup>
- 10 Find the area of a rectangle measuring 8.5cm by 6cm. 11 Divide 75kg by 100. Give the
- **750**g
- Which of these fractions are of equal value?
  - 0.6 0.75

answer in grams.

 $\frac{3}{4}$ , 0.75

#### **Answer**



2 Badges cost 6p each. How many

b unshaded.

- 3 A teaspoon holds 5ml. How many spoonfuls in  $\frac{1}{4}$ l? 50
- 4 Find the missing number in this division.

can be bought for £1.56?

1	7 r 7	
9)		160

- Mince costs €1.80 per ½kg. Find the cost of mince weighing 600g.
- 6 A triangle has two equal sides each measuring 36cm. Its perimeter is 1m. Find the length of the third side. **28**cm
- There were 6845 people at a concert. Write this number

  - a to the nearest 100 a 6800 b to the nearest 10. b 6850
- 8 There are two 2 place decimal numbers which are greater than 3.97 but less than 4.00.
- What are the numbers? 3.98 3.99
- 9 Fatima collected 150 pennies for the school fund. Olivia collected 3 times as many. How many £1 coins did they receive in exchange?
- 10 Jamie's stride measures 40cm. How many strides will he take in walking 10m? 25
- 11 A rectangular path measures 9m long and 50cm wide. Find its area in m<sup>2</sup>. 4.5m<sup>2</sup>



The line AB is drawn to a scale 1cm to 20cm. Find the length the line represents

a in centimetres

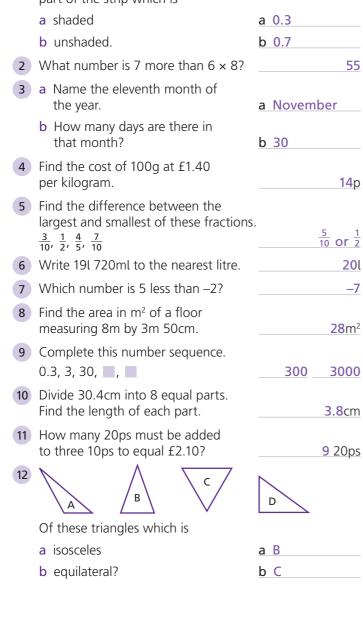
160cm a

6

**b** in millimetres.

Α	Answer
1 Write as a decimal $10 + \frac{3}{10} + \frac{7}{100}$	10.37
$(8 \times 9) + (0 \times 7) =$	72
3 10.05m = □cm	1005cm
4 250g + ■g = 600g	350g
5 0.5l = 330ml + ■ml	170ml
$\frac{3}{8}$ of £40 =	£15
7 296483 – 20210 =	276 273
8 $f2.08 - 70p = f$	£1.38
9 Write $\frac{3}{5}$ as a decimal fraction.	0.6
10 3h 40min = min	220min
11 40.08 × 100 =	4008
12 f8.32 ÷ 4 =	£2.08

7	296483 - 20210 =	_		276 273
8	f2.08 - 70p = f	3	£1.38	
9	Write $\frac{3}{5}$ as a decimal fraction.	_		0.6
10	3h 40min = ■min			<b>220</b> min
11	40.08 × 100 =			4008
12	f8.32 ÷ 4 =		£2.08	
		-		
В		ı	Answer	
1				
	Write as a decimal fraction the part of the strip which is a shaded		a 0.3	
	b unshaded.		b 0.7	
2	What number is 7 more than 6 >	-		55
3	a Name the eleventh month of			
	the year.	<u> </u>	a Noven	nber
	b How many days are there in that month?	į	b 30	
4	Find the cost of 100g at £1.40 per kilogram.	-		<b>14</b> p
5	Find the difference between the largest and smallest of these fractions $\frac{3}{10}$ , $\frac{1}{2}$ , $\frac{4}{5}$ , $\frac{7}{10}$	tions.		$\frac{5}{10}$ or $\frac{1}{2}$
6	Write 19l 720ml to the nearest li	tre.		<b>20</b> l
7	Which number is 5 less than –2?	-		<u>-7</u>
8	Find the area in m <sup>2</sup> of a floor measuring 8m by 3m 50cm.	-		28m <sup>2</sup>
9	Complete this number sequence 0.3, 3, 30, ☐, ☐		300	3000
10	Divide 30.4cm into 8 equal parts Find the length of each part.	i. -		3.8cm
11	How many 20ps must be added to three 10ps to equal £2 10?			9 20ns



С	Answer
1 One thousand and six people each bought five tickets. How many tickets was that altogether?	s5030
2 How much change from three 20ps after paying for six eggs at £1.08 per dozen?	6p
A B	D
Write the length of each line in centimetres.	
AB CD	4.7cm
4 Find the mean average mass of	6.2cm
14kg, 10kg and 9kg.	11kg
Dasal spent $\frac{1}{4}$ of his money on sweets and $\frac{3}{8}$ on bus fares. What fraction of his money is left?	
How many degrees are there in each of the equal angles at the centre of the circle?	60°
How many grams less than 1kg is the total mass?	350g
8 Tom's date of birth is 7 March 1995. Daniel was born exactly 4 years later. Write Daniel's date of birth in digits.	7.3.1999
9 The approximate distance between two villages is given as 11km. The actual distance is 10.7km. Find the difference in metres.	300m
Which two of these fractions are equivalent to $\frac{3}{4}$ ? $\frac{6}{10}, \frac{9}{12}, \frac{4}{5}, \frac{15}{20}$	
Emily and Katie have 60p between them. Emily has 8p more than Katie. How much has each?	
a Emily	a 34p
b Katie	<u>b</u> 26p
find the missir measurement marked b.	ng 30m

## SECTION 1 | Test 6

#### Α **Answer**

- 1 45p + 35p + £1.20 = £
- £2.00

2 63 ÷ 8 =

- **7** r
- 3 Write as a decimal 708 hundredths.
- 7.08

7

4  $\frac{1}{2}$ kg –  $\mathbb{Z}$ g = 125g

375q

 $5 ext{ } ext{f1.05} \times 6 =$ 

£6.30

6 0.8 + = 1

- 0.2
- 7 How many minutes from 9:27 a.m. to 11:15 a.m.?

8 ml + 4050ml = 5l

950ml

**108**min

9 60.4 ÷ 10 =

 $\frac{3}{5} = \frac{100}{100}$ 

6.04 100

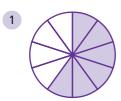
11 0.5 of \$17.20 =

\$8.60

12



- $\angle A + \angle B + \angle C = \square^{\circ}$ 180°
- В **Answer**



- Write the part which is shaded
- a as a simple
- fraction **b** as a decimal
- $a^{\frac{3}{5}}$
- fraction.
- b 0.6
- 2 From 9 times 7 take 5.
- 58
- 3 Write the 24-hour clock time for 12min before midnight.
- 23:48
- 4 Find the cost of 20cm at 75p per metre.
- **15**p
- 5 Write 9kg 870g to the nearest  $\frac{1}{2}$ kg.
- **10**kg
- 6 Find the difference between 3.8l and 6l.
- 2.2l
- 7 What length in centimetre is  $\frac{1}{5}$  of 3m?
  - **60**cm
- 8 Find the total of  $2\frac{1}{4}$ ,  $3\frac{5}{8}$  and 5.
- $10\frac{7}{8}$
- 9 How many 2ps are worth £2.48?
- 124 2ps
- 10 A square has sides measuring 10cm.
  - Find a its perimeter
- a 40cm

**b** its area.

- b 100cm<sup>2</sup>
- 11 Complete the number sequence.
- 0.01, 0.1, 1, ,
- 10 100

12







- Which of
- these triangles is
- a a right-angled triangle
- **b** an acute-angled triangle
- c an obtuse-angled triangle?
- a B
- b C
- c A

- **Answer**
- 1 Find the total of  $\frac{3}{4}$ kg, 400g and 200g. Write the answer in kilograms and grams.
- 1kg 350q
- 2 What is the value of the digit underlined in each of these numbers?
  - a 6037

C

30

**b** 49.08

- b 8 hundredths
- 00000 00000
- Find the mean average number of dots in a row.
- 4 Samina bought eight sweets at 4p each. How much change had she from 50p?
- **18**p

5

How many degrees are there in the angle marked A?

115°

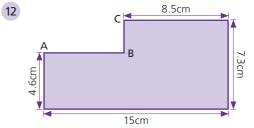
**27**p

5

- The population of a town is 18968. Write the number
  - a to the nearest 1000
- a 19000
- b to the nearest 100.
- b 19000
- 7 Find the smallest number which can be added to 40 to make a number which is exactly divisible by 7.
- 8 Five balloons cost 45p. Find the cost of three balloons.
- 9 Six children each had an equal share of a sum of money. They each received 18p and there was 2p

left over. Find the sum of money.

- £1.10
- 10 Two angles of a triangle each measure 45°. Find the size in degrees of the third angle.
- 90°
- 11 What liquid measure is equal to 0.1 of 20l?
- 21



Find the length of

a the side AB

6.5cm

b the side BC.

**2.7**cm

SECTION 1   Test 7	
A	Answer
1) $\frac{7}{12} + \blacksquare = 1$	5
2 Write as a decimal 15 + $\frac{5}{100}$	15.05
3 20.4 = tenths	204 tenths
4 (8 × 8) + 6 =	70
5 $2km + \frac{1}{2}km + \frac{1}{4}km = m$	2750m
6 Find the missing number. 3000 + 100 +  + 6 = 3196	90
7 $f2.00 - 46p = f$	<u>£</u> 1.54
8 $700g + g = 1.5kg$	800g
9 How many thirds in $6\frac{2}{3}$ ?	3
The time on the clock is 13min fas Write the correct time using a.m. or p.m.	t. 6:54 p.m.
11 $27p \times 4 =$	£1.08
12 0.7l – ml = 610ml	90ml
В	Answer
1 $5^2 = 5 \times 5 = 25$ . Find the value of a $6^2$ b $10^2$ .	a 36 b 100
Find the value of <b>a</b> 6 <sup>2</sup>	a 36 b 100
Find the value of a 6 <sup>2</sup> b 10 <sup>2</sup> .	b 100
Find the value of a 6 <sup>2</sup> b 10 <sup>2</sup> .  2 Add 8 hundredths to 3.04.  3 What is the difference between	b 100 3.12
Find the value of a 6 <sup>2</sup> b 10 <sup>2</sup> .  2 Add 8 hundredths to 3.04.  3 What is the difference between 90p and £3.25?  4 How many hours and minutes are	b 100 3.12 f2.35
Find the value of a 6 <sup>2</sup> b 10 <sup>2</sup> .  2 Add 8 hundredths to 3.04.  3 What is the difference between 90p and £3.25?  4 How many hours and minutes are there in 105 min?  5 Find the cost of seven lemons	b 100 3.12  £2.35  1h 45min
Find the value of a 6 <sup>2</sup> b 10 <sup>2</sup> .  2 Add 8 hundredths to 3.04.  3 What is the difference between 90p and £3.25?  4 How many hours and minutes are there in 105 min?  5 Find the cost of seven lemons at 18p each.  6 Fill in the missing numbers.  a 8/20 = 2/2	b 100  3.12  f2.35  1h 45min  f1.26 $a^{\frac{2}{5}}$
Find the value of a 6 <sup>2</sup> b 10 <sup>2</sup> .  2 Add 8 hundredths to 3.04.  3 What is the difference between 90p and £3.25?  4 How many hours and minutes are there in 105 min?  5 Find the cost of seven lemons at 18p each.  6 Fill in the missing numbers.  a 8/20 = 2/100 = 1/100  Thow many grams must be added	b 100  3.12  f2.35  1h 45min  f1.26  a $\frac{2}{5}$ b $\frac{1}{4}$
Find the value of a 6 <sup>2</sup> b 10 <sup>2</sup> .  2 Add 8 hundredths to 3.04.  3 What is the difference between 90p and £3.25?  4 How many hours and minutes are there in 105 min?  5 Find the cost of seven lemons at 18p each.  6 Fill in the missing numbers.  a 8/20 = 2/1 b 25/100 = 1/1  7 How many grams must be added to 2300g to make 21/2 kg?	b 100  3.12  f2.35  1h 45min  f1.26  a $\frac{2}{5}$ b $\frac{1}{4}$ 200g  DC
Find the value of a 6 <sup>2</sup> b 10 <sup>2</sup> .  2 Add 8 hundredths to 3.04.  3 What is the difference between 90p and £3.25?  4 How many hours and minutes are there in 105 min?  5 Find the cost of seven lemons at 18p each.  6 Fill in the missing numbers.  a \frac{8}{20} = \frac{2}{1}  b \frac{25}{100} = \frac{1}{1}  7 How many grams must be added to 2300g to make 2\frac{1}{2}kg?  8 Write 600 using Roman numerals.  9 How many degree are there in the	b 100  3.12  f2.35  1h 45min  f1.26  a $\frac{2}{5}$ b $\frac{1}{4}$ 200g  DC
Find the value of a 6 <sup>2</sup> b 10 <sup>2</sup> .  2 Add 8 hundredths to 3.04.  3 What is the difference between 90p and £3.25?  4 How many hours and minutes are there in 105 min?  5 Find the cost of seven lemons at 18p each.  6 Fill in the missing numbers.  a \frac{8}{20} = \frac{2}{1}  b \frac{25}{100} = \frac{1}{1}  7 How many grams must be added to 2300g to make 2\frac{1}{2}kg?  8 Write 600 using Roman numerals.  9 How many degreare there in the angle marked A?  10 By how many millimetres is 8.3cm	b 100  3.12  f2.35  1h

Find the number *x* stands for.

C		Answer
1	Write in digits the number which is 70 less than ten thousand.	9930
2	Count the value of these coins in the given order and find the total amount.	<u>£1.72</u>
	10 10p 50 50p 55p	20 20p 2p
3	All the angles at the centre of the circle are equal. How many degrees are there in the marked angle?	y 45°
4	1l of water has a mass of 1kg. Find in grams the mass of water in a bottle which holds $\frac{1}{4}$ l.	250g
5	Give the size in degrees of	
	a angle A	a 45°
	b angle B.	b 90°
6	In a test, James scored 70 out of 100. What fraction (with the denominator 10) of the total did he score?	
7	Chloe has £1.50 and Anna has $\frac{3}{5}$ of this amount. How much have they altogether?	£2.40
8	How many days are there from 28 June to 9 July? Do not count the first day.	11
9	Find the mean average of 5, 6, 7, 8 and 9.	7
10	The driveway is 3 times as long as it is wide.	
	Find a its length	a 60m
	b its perimeter.	b 160m
11	By how many m <sup>2</sup> is the area of the driveway more than 1000m <sup>2</sup> ?	200m²
12	Leo doubles his savings every week for 4 weeks. In the first week he saved 20p. How much did he save in the fourth week?	£1.60

5

# **SECTION 1** | Test 8

A	Answer
1 6.07 = hundredths	607 hundredths
Write as a 24-hour clock time 16 minutes after midnight.	00:16
3 Write as a decimal 200 + $\frac{3}{10}$ + $\frac{9}{100}$	200.39
4 485 472 + 10 303 =	495775
5 Find the value of x if $54 \div 9 = 30 \div x$	5
6 £1.00 − (four 10ps + nine 5ps) = □ p	15p
7 40° + 65° + <b>1</b> ° = 180°	75°
$8 \frac{1000}{8} =$	125
9 f4.86 = 10ps + 6p	48 10ps
10 ml × 10 = 2l	200ml
11 f2.34 ÷ 6 = p	39p
12 $425g + 70g + 87g = 10 \text{ kg}$	0.582kg
P	Answer

8	$\frac{1000}{8} =$		125
9	f4.86 = 10ps + 6p		<b>48</b> 10ps
10	$ml \times 10 = 2l$		200ml
11	f2.34 ÷ 6 = p		<b>39</b> p
12	425g + 70g + 87g = ■kg		0.582kg
В		Answ	er
1	Add 5 to 7 <sup>2</sup> .		54
2	Change these times to 12-hour clock times using a.m. or p.m.		
	a 07:05	a	7:05 a.m.
	b 23:20	b	11:20 p.m.
3	Decrease £1.34 by 40p.		<b>94</b> p
4	Write to the nearest whole number.		
	a $9\frac{7}{10}$	a 10	
	b $20\frac{2}{5}$	b 20	
5	By how many metres is 1850m less than 3km?		1150m
6	Find the total of fifteen 20ps and twelve 10ps.	£4.20	
7	What is the difference in millilitres between $\frac{3}{4}$ l and 580ml?		<u>170ml</u>
8	How many grams are equal to 0.3kg?		300g
9	How many degrees are there in each of the equal angles at the centre of the circle?		45°

 $\frac{1}{2}$ kg costs £1.60. Find the cost of 100g.

11 Find the area of a square with

sides of 40cm.

12 612 ÷ y = 6. Find y.

C		Answer
1	By how many is 10 <sup>2</sup> greater than 9 <sup>2</sup> ?	19
2	How many	
	a tenths are equal to 50.6	a 506 tenths
	<b>b</b> hundredths are equal to 40.75?	b 4075 hundredths
3	The four angles of any quadrilateral together equal 360°. Find in degrees the size of the angles marked x.	
	markeu x.	130°
4	Seven nails have a mass of 50g. How many nails have a mass of $\frac{1}{2}$ kg?	70
5	Through how many degrees does the hour hand of a clock turn from noon to 4:00 p.m.?	120°
6	Write these numbers so that the value of the digit 7 in each number is 7 hundredths.  a 1607 b 97	a 16.07 b 0.97
7	A right-angled triangle contains an angle of 55°. Find the size of the third angle.	35°
8	When a barrel is $\frac{1}{5}$ full it holds 16l. How many litres will it hold when $\frac{1}{2}$ full?	401
9	Find to the nearest kilometre the distance by road from Batey to Skipley.	20km
	6.8km 2.7 10k	Skipley
10	A game which costs £17.50 is paid for at the rate of 50p per week. How many payments are made?	35
11	A bus runs at 20min intervals. If the first bus leaves at 07:30, find the starting time of the third bus.	08:10

12 What is the cost of 1kg 200g at

**42**p

35p per kilogram?

**32**p

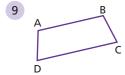
102

1600cm<sup>2</sup>

Answer

SECTION 1   lest 9	
A	Answer
1 375375 + 420001 =	795376
2 200 – 97 =	103
$\frac{3}{10}$ of 50p =	15p
4 Write as a decimal 70 + 6 + $\frac{9}{100}$	76.09
5 2km 350m = m	2350m
6 $f1.71 \div 9 = p$	19p
7 1.5kg – 650g = <b>g</b>	850g
8 Write 750 using Roman numerals.	DCCL
9 1150ml + ml = 2l	850ml
10 215min = h min	3h35min
11 £3.05 = 10ps + one 5p	30 10ps
12 4.5kg × 100 =	<b>450</b> kg
В	Answer
1 What is the value of the	

В		Answer
1	What is the value of the missing number?	
	Thirty point three six = $30 + \boxed{} + \frac{6}{100}$	<u>3</u>
2	Write to the nearest metre 19.54m.	20m
3	Find the change from £5.00 after spending 89p.	£4.11
4	What number is 5 more than -4?	1
5	Change 8:35 p.m. to 24-hour clock time.	20:35
6	An isosceles triangle has two angles of 70°. What is the size of the third angle?	40°
7	Find in millimetres the length of a line that is half of 7.6cm.	38mm
8	Increase €1.20 by a quarter of €1.20.	€1.50



Name the pair of parallel lines in this shape.

AB and CD

- How many times can 250ml be taken from  $2\frac{1}{2}$ l?
- 11) Find the cost of 1kg 100g of oranges at 50p per  $\frac{1}{2}$ kg.

£1.10

12 Which of these decimal fractions is equal to  $\frac{3}{4}$ ? 0.34, 0.43, 0.75, 0.63

1	Arrange the digits 3, 8, 0, 5 to make	
	a the largest possible number	a 8530
	<b>b</b> the smallest possible number.	b 0358
2	This shape has eight equal sides.	
	a Name the shape.	<u>a</u> octagon
	b How many degrees are there in ∠ A?	b 45°
3	Share £4.76 equally among seven children. Find how much each has. Write the answer	
	a in pence	a 68p
	b in fs.	b f0.68
4	A teaspoon holds 5ml. What decimal fraction of a litre is contained in 100 spoonfuls?	0.5l
5	Find in grams. a 0.1 kg	a 100g
3	b 0.4 kg	b 400g
	c 0.8 kg	c 800g
6	The perimeter of the rectangle is 96cm. The width is 15cm. Find its length.	33cm
7	What is the largest of these	
	decimal numbers?	
	1.1, 0.98, 1.12, 1.06	1.12
8	The thickness of 100 sheets of card is 14.5cm. Find the thickness in millimetres of	
	a 10 sheets	a 14.5mm
	b one sheet.	b 1.45mm
9	/ These angles are equal.	
	a How many right angles are equal to the sum of	
	the five angles?	a 4
	b How many degrees are there in each of the five angles?	b 72°
10	Tissues are sold at five for 35p. What is paid for 30 tissues?	£2.10
11	Alfie spent $\frac{3}{5}$ of his money on sweets and $\frac{3}{10}$ on ice cream. What fraction of his money had he left?	
12	Marek 10 years Harry 9 years Evie years Recky 10 years Recky 10 years The mean average age of the children is 9 years.	

How old is Evie?

**7**yr

0.75

Becky 10 years

A		Answer
1	Write as a decimal	
	a 407 tenths	a 40.7
	b 209 hundredths.	b 2.09
2	How many days in 1 year?	365
3	$4^2 + 3^2 - 2^2 =$	21
4	50p + two 20ps = ■ 5ps	18 5ps
5	0.55 + = 1	0.45
6	$\frac{9}{10}$ of 1kg = $\Box$ g	900g
7	63 ÷ 7 = 54 ÷	6
8	$\frac{2}{5} + \frac{5}{10} =$	<u>9</u> 10
9	0.48m ÷ 8 = □ cm	6cm
10	£2.30 – 95p = £	£1.35
11	87 × 6 =	522
12	Write as a decimal,	
	9 + 3 tenths + 17 hundredths.	9.47
В		Answer
1	Write the value of the digit underlined	d.
	a 36.0 <u>9</u>	a 9 hundredths
	b 1 <u>8</u> 0.6	<u>b</u> 80
2	By how many grams is 1.3kg heavier than 700g?	600g
3	Find the cost of eight tomatoes at 19p each.	£1.52
4	By what length is 0.5m less than 10.05m?	9.55m
5	Write the 24-hour clock time which is 17min later than 13:55.	14:12
		14.12
6	How many 12p eggs can be bought for £1.80?	15
7	for £1.80?  Which two of these fractions when added together make a whole one?	15
7	for £1.80?  Which two of these fractions when added together make a whole one? $\frac{5}{8}$ , $\frac{2}{5}$ , $\frac{1}{4}$ , $\frac{6}{10}$ , $\frac{1}{8}$	
7	for £1.80?  Which two of these fractions when added together make a whole one? $\frac{5}{8}$ , $\frac{2}{5}$ , $\frac{1}{4}$ , $\frac{6}{10}$ , $\frac{1}{8}$ Find the average of 1.6l, 0.8l, 1.2l.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
7 8 9	for £1.80?  Which two of these fractions when added together make a whole one? $\frac{5}{8}$ , $\frac{2}{5}$ , $\frac{1}{4}$ , $\frac{6}{10}$ , $\frac{1}{8}$ Find the average of 1.6l, 0.8l, 1.2l.  Write 284 using Roman numerals.	
	for £1.80?  Which two of these fractions when added together make a whole one? $\frac{5}{8}$ , $\frac{2}{5}$ , $\frac{1}{4}$ , $\frac{6}{10}$ , $\frac{1}{8}$ Find the average of 1.6l, 0.8l, 1.2l.  Write 284 using Roman numerals.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
7 8 9	for £1.80?  Which two of these fractions when added together make a whole one? $\frac{5}{8}$ , $\frac{2}{5}$ , $\frac{1}{4}$ , $\frac{6}{10}$ , $\frac{1}{8}$ Find the average of 1.6l, 0.8l, 1.2l.  Write 284 using Roman numerals.  Find in centimetres the length of a	

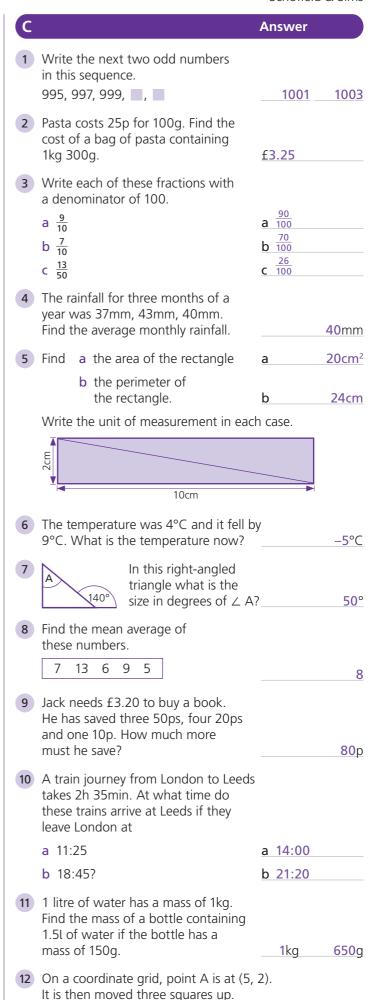
	523	1 1 1630 10
C		Answer
1	What is the greatest possible remainder when a whole number is divided by 9?	8
2	How many pieces of ribbon each 4.5cm long can be cut from a length of $4\frac{1}{2}$ m?	100
3	A bag of rice having a mass of 200g costs 40p. Find the price per kilogram.	£2.00
4	What is the 12-hour clock time which is $1\frac{1}{4}$ h earlier than 13:05? Use a.m. or p.m.	11:50 a.m.
5	Eggs are packed in boxes in layers of 20. If there are four layers in each box and five boxes, find the total number of eggs.	400
6	f What is the missing 8 . 6 0 sum of money?	£5.50
	+ 2.9 0 1 7.0 0	
7	How many degrees are there in the angle marked <i>y</i> ?	60°
8	$15 \times 36 = 540$ . By how many is $16 \times 36$ more than 540?	36
9	A 2l can is $\frac{7}{10}$ full. How many more millilitres are required to fill it?	600ml
10	A map is drawn to a scale 1cm to 10km. Find the actual distance represented by 54mm.	54km
11	How many right angles are equal to the sum of the three angles in a triangle?	2
12	How many tiles each 10cm square are needed to cover the area shown?	24
	30cm	
	80cm	

11 0.3l = ml

12  $f9.00 \div 100 = p$ 

A	Answer
1 (7 × 8) + 5 =	61
2 $2.86 = $ tenths + 6 hundredths	28 tenths
$\frac{4}{5} = \frac{1}{100}$	80 100
4 f2.04 × 8 =	£16.32
5 How many minutes from 11:40 a.m. to 1:10 p.m.?	90min
6 105 570 – 100 510 =	5060
<b>7</b> 4kg 50g = <b>■</b> g	4050g
8 $70p \times 2\frac{1}{2} =$	£1.75
9 504mm = cm	50.4cm
10 $A \rightarrow B \rightarrow A \rightarrow B \rightarrow B$	360°

В		Answer
1	Take 0 times 9 from the product of 8 and 6.	48
2	Five parcels of different sizes have a total mass of 800g. Find their average mass.	160g
3	Decrease 72p by $\frac{1}{8}$ .	63p
4	In a leap year February has 29 days. How many days in a leap year?	366
5	Write 9l 700ml to the nearest half-litre.	9 <sup>1</sup> _l
6	How much change from a £5 note after first spending £3 and then 56p?	£1.44
7	Which of these fractions equal $\frac{2}{3}$ ?	
	$\frac{4}{9}$ , $\frac{8}{12}$ , $\frac{16}{20}$ , $\frac{10}{15}$	<u>8</u> <u>10</u> <u>15</u>
8	What number when multiplied by 3 gives 207 for the answer?	69
9	Find the cost of 2m 20cm at 25p per metre.	55p
10	Write 493 using Roman numerals.	CDXCIII
11	$17 \times 7 = 119$ . Write the answer to $0.17 \times 7$ .	1.19
12	Which of these lines are perpendicular to the line XY?	b, e



What are its coordinates now?

(5

5)

300ml

**9**p

А	Answer
1 300 + 15 + 5000 =	5315
2 forty-five 5ps = f	£2.25
3 $\frac{27}{100}$ of 1m = $\frac{1}{100}$ cm	27cm
4 0.45 + = 1	0.55
5 The ninth month of the year is .	September
6 709 × 8 =	5672
7 3.7 = hundredths	370 hundredths
8 17p + 15p + 20p = f	£0.52
9 140g + g = 0.2kg	60g
10 £23.00 ÷ 5 =	£4.60
11) $0.7l - \frac{1}{2}l = ml$	200ml
12) $\frac{3}{10} + \frac{2}{5} =$	
В	Answer
1 What number is 32 greater than 290	?322
Write as a decimal 5 tens plus 18 tenths.	51.8
3 How many 5ps must be taken from three 50ps to leave £1.15?	<b>7</b> 5ps
4 How many eighths are there in $7\frac{5}{8}$ ?	<u>61</u> 8
5 29 June is on a Friday. On which day is 4 July?	Wednesday
6 Share 75p equally among eight children. Find	
a how much they each receive	<b>a</b> 9p
<b>b</b> how much is left over.	<u>b</u> 3p
7 What mass in kilograms is double 3kg 750g?	7.5kg
Which of these numbers will divide exactly by both 6 and 9 without a remainder?	
24 36 48 63	36
9 Find the area of a rectangular playground 30m long and 18m wide.	540m²

A		Answer		C	
1	300 + 15 + 5000 =		5315	1	Approximate
2	forty-five 5ps = f	£2.25			a 9.82 to the nearest whole on
3	$\frac{27}{100}$ of 1m = $\frac{1}{100}$ cm		<b>27</b> cm		b £10.48 to the nearest £1
4	0.45 + = 1		0.55		c 3.25kg to the nearest kilogra
5	The ninth month of the year is .	Sep	tember	2	The kilometre reading on a car is 9946.2. What distance has th
6	709 × 8 =		5672		car to travel for it to read ten thousand kilometres?
7	3.7 = ☐ hundredths	370 h	undredths	3	Which two shapes are reflection
8	17p + 15p + 20p = f	£0.52			of each other along the dotted
9	$140g + \Box g = 0.2kg$		<b>60</b> g		10
10	£23.00 ÷ 5 =	£4.60			9 8
11	$0.7l - \frac{1}{2}l = $ ml		200ml		7 A C
12	$\frac{3}{10} + \frac{2}{5} =$		7 10		5
В		A 10 51 1 1 2 1			4 H
В		Answer			3 II G F
1	What number is 32 greater than 290?		322		1
2	Write as a decimal 5 tens plus 18 tenths.		51.8		-1 1 2 3 4 5 6 7
3	How many 5ps must be taken from three 50ps to leave £1.15?		<b>7</b> 5ps	4	10 yoghurts cost £2.40. Find the
4	How many eighths are there in $7\frac{5}{8}$ ?		<u>61</u> 8	5	cost of three.  Josh was born on 30/06/03.
5	29 June is on a Friday. On which day is 4 July?	Wed	dnesday	5	Write his age in years and mont on 1 September 2015.
6	Share 75p equally among eight children. Find			6	Find the sum of the numbers between 60 and 80 which are
	a how much they each receive	a	<b>9</b> p		divisible by 9.
	b how much is left over.	b	<b>3</b> p	7	Write the number 900 using Roman numerals.
7	What mass in kilograms is double 3kg 750g?		<b>7.5</b> kg	8	1000 teabags have a mass of 4. Find the mass in grams of
8	Which of these numbers will divide				a 100 teabags
	exactly by both 6 and 9 without a remainder?				b one teabag.
	24 36 48 63		36	9	A shopkeeper bought six balls for £1.32 and sold them to make a
9	Find the area of a rectangular				profit of 48p. For how much did
	playground 30m long and 18m wide.		540m <sup>2</sup>	10	he sell each ball?
10	Find the cost of 400g at 25p per kilogram.		<b>10</b> p	10	A car uses 7l of petrol to travel 100km. How many litres are req for 1600km?
11	From $1\frac{3}{8}$ subtract $(\frac{1}{2} + \frac{3}{4})$ .		<u>1</u> 8	11	Three lines measure 0.04m, 47n
12	How many degrees in				3.8cm. Find the difference between the longest and shortest lines.
	A $A$ $A$ $A$ $A$	a	75°	12	Find the mean average of these
	b ∠ B?	b	140°		26p 10p 25p 32p 17p

	Answer
Approximate	
	a 10
b £10.48 to the nearest £1	b £10
c 3.25kg to the nearest kilogram.	c 3kg
The kilometre reading on a car is 9946.2. What distance has the car to travel for it to read ten thousand kilometres?	53.8km
	33.6KIII
Which two shapes are reflections of each other along the dotted line?	<u>H</u> <u>E</u>
10 9 8 7 6 A B C D 5 4 3 H G F E 1 1 1 2 3 4 5 6 7 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1	10
10 yoghurts cost £2.40. Find the cost of three.	
Josh was born on 30/06/03. Write his age in years and months on 1 September 2015.	12yr 2mth
Find the sum of the numbers between 60 and 80 which are divisible by 9.	135
Write the number 900 using	133
Roman numerals.	CM
1000 teabags have a mass of 4.2kg. Find the mass in grams of	
a 100 teabags	a 420g
b one teabag.	b 4.2g
A shopkeeper bought six balls for £1.32 and sold them to make a total profit of 48p. For how much did he sell each ball?	30p
A car uses 7l of petrol to travel 100km. How many litres are required for 1600km?	112l
Three lines measure 0.04m, 47mm, 3.8cm. Find the difference between the longest and shortest lines.	9mm
Find the mean average of these prices.	
26p 10p 25p 32p 17p	22p

Write the numbers 1 to 20 down the side of a piece of paper.

Write alongside these numbers the **answers only** to the following questions.

Work as quickly as you can. Time allowed – 10 minutes.

1 Write in digits to the nearest hundred six thousand four hundred and fifty.

6500

2 Find the missing number of 5ps. £1.65 = two 50ps, two 20ps, 5ps

5 5ps

3 Round 463 596 to the nearest 10.

463600

4 Write as a decimal the sum of 3 hundreds and 109 hundredths.

301.09

5 How many hours and minutes from 11:52 a.m. to 2:27 p.m.?

2h 35min

6 By counting in the given order find the total value of the coins.

95p



















7 Write the number 731 using Roman numerals.

DCCXXXI

8 On a coordinate grid, point A is at (5, 4). It is then moved four squares to the left. What are its coordinates now?

(1, 4)

9  $\frac{3}{4}$  of a sum of money is 54p. Find the whole amount.

72p

10  $26 \times 8 = 208$ . Write the answer to  $26 \times 80$ .

2080

11) Find the mean average of these prices.

31p 50p 40p 44p 30p

39p

12 Take 650ml from 5l and give the answer to the nearest 0.5l.

4.5l

13 A regular hexagon has sides each measuring 58mm. Find its perimeter in centimetres.

34.8cm

14 200g of mushrooms cost 48p. Find the price of the mushrooms per half-kilogram.

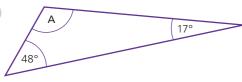
£1.20

15 How many less than 870 000 is the answer to 859 985 + 10 014?

16 A rectangular garden plot measures 12.8m long and 8m wide. Find its area in m<sup>2</sup>.

102.4m<sup>2</sup>

17



Find the size of angle A.

\_\_\_\_115°

18 The mass of a 10p coin is 6.5g. Find the mass in kilograms of the coins in a £10 bag of 10ps.

0.65kg

19 What is the 12-hour clock time which is  $2\frac{1}{4}$ h earlier than 14:25? Use a.m. or p.m.

12:10 p.m.

20 0.97 + = 1

0.03

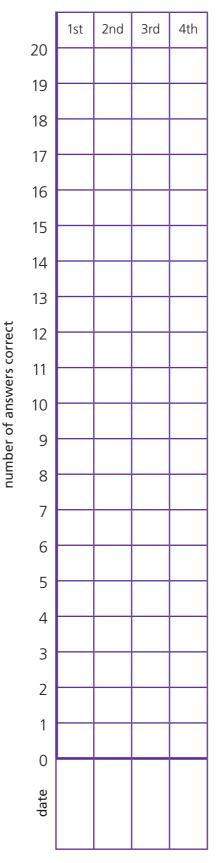
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You will work through Progress Test 1 at **four** different times – once at the end of Section 1, then again after you have completed each of Section 2 Test 4, Test 8 and Test 11.

When you first complete the test:

- a colour the first column to show the number of answers correct out of 20
- **b** enter the date.

Each time you take the test, enter the result and the date in the marked columns.

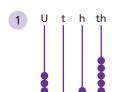


	CHON 2   lest 1	
A		Answer
1	Write in digits thirty thousand	20045
	and fifteen.	30015
2	2006 – 600 =	1406
3	three 10ps and six 5ps = 2ps	30 2ps
5	10.04 =	1004 hundredths
6	36 x 20 = 36cm = ■m	1120 0.36m
7	$0.850 \text{kg} = \boxed{g}$	850g
8	0.05 + 0.04 =	0.09
9	$0.5 \times 3 =$	1.5
	29 + 13 = 7 ×	6
11	f0.95 = three 20ps + 5ps	<b>7</b> 5ps
	$\frac{9}{100}$ of £3.00 = $\blacksquare$ p	
12	100 01 25.00 -	
В		Answer
1	Write 639 using Roman numerals.	DCXXXIX
2	What fraction of the square is	
	a shaded	a <sup>5</sup> / <sub>8</sub>
	b unshaded?	$b^{\frac{3}{8}}$
3	Find the total of 79p, 41p and 85p.	£2.05
4	Write as 24-hour clock times.	
	a 5 minutes to 9 in the morning	a 08:55
	<b>b</b> 10 minutes past 10 in the evening	b 22:10
5	By how many metres is 2km less than 2.35km?	350m
6	Round 10.47 to the nearest whole number.	10
7	What is the cost of 2m 10cm at 40p per metre?	84p
8	By how many kilograms is $1\frac{1}{2}$ kg greater than 350g?	1.15kg
9	Find the total cost of 100 balloons at 7p each.	£7.00
10	What is the value in millilitres of	17.00
	the digit underlined in 7.3 <u>6</u> 0l?	60ml
11	By how much is the total of seven 10ps and three 5ps less than £1?	15p
12	Write in digits to the nearest 100 twenty thousand nine hundred and six.	20 900

			Scholleid & Sillis
C			Answer
1	How many packets 100 cards can be n thirteen thousand	nade from	130
2	Find the change from	13p	
3	$\frac{1}{7}$ of the mass of a Find its total mass		4.2kg
4	A 772° B	ABC is an isosceles triangle. Find the size in degrees of the	
		a angle at B	a 54°
		<b>b</b> angle at C.	b 54°
5	Three bottles conta 0.5l. Find in millilitr average of these qu	ain 1.3l, 0.9l and es the mean	900ml
6	A bus journey take leaves at 09:50, at it arrive?		10:37
7	garden area 480m²	Find the width of the garden.	12m
8	The population of a 59 609. Write this the nearest 1000.		60000
9	The bus fare for a confidence of an adult. Find the two adults and four full fare is 54p.	ne total fares for	£2.16
10	On a map each 1m 50m in real life. Wh a line measuring 81 map represent?	hat length does	400m
11	What number is 17	less than 7?	
12	Which shape has the perimeter and by he centimetres?		square by 2cm
	square 8cm	rectangle 9cm	<b>→</b>
	OCIII		

## SECTION 2 | Test 2

#### A Answer



12 0.4 + 0.7 =

Write in words as a decimal the number shown on the abacus.

#### three point zero one five

2 100 × = 10000	100
3 2.8km − 300m = km	2.5km
4 $74p \times 8 = f$	£5.92
5 0.2 × 6 =	1.2
6 0.065l = ml	65ml
7 $\frac{1}{6}$ of £4.80 = $\square$ p	
8 47 + 53 + 4000 =	4100
9 0.75min = s	<b>45</b> s
10 42 – 15 = X 3	9
11 $3kg + 90g = kg$	3.09kg

В	Answer
1 Increase 240 by $\frac{1}{3}$ of 60.	260
2 13 out of 25 = out of 100	52
3 Find the change from £3.00 after spending £2.19.	81p
4 From twelve thousand take nine hundred and forty.	11 060
5 6 times 85cm = ■ m	5.1m
What fraction of the rectangle is  a shaded  b unshaded?	<b>a</b> $\frac{5}{12}$ <b>b</b> $\frac{7}{12}$
7 How many millimetres are there in 3.07m?	3070mm
8 How many times is 250g contained in $5\frac{1}{2}$ kg?	22
9 Reduce $\frac{70}{100}$ to a fraction in its lowest terms.	7 10
10 What is the cost of 100g at 85p per $\frac{1}{2}$ kg?	17p
11 A square has sides 30cm long. Find	
a its perimeter	a 120cm
b its area.	b 900cm <sup>2</sup>

12 Share \$100 equally among eight people. How much each?

C		Answer
1	Divide 1655 by 100 and write the answer to the nearest whole number.	17
2	Simplifying your answer, write what fraction of the dots is	
	a white	<u>a</u> <sup>1</sup> / <sub>3</sub>
	b purple.	$b^{\frac{2}{3}}$
3	Plums are priced at three for 35p. How many can be bought for £2.10?	18
4	The mass of a box of books is 3.5kg. The mass of the box is 600g. Find the mass of the books in kilograms.	2.9kg
5	Sasmita lives 20.3km from her place of work. How many kilometres does she travel in a five-day week if she makes a return journey each day?	203km
6	Omar's date of birth is 30.08.94. What will be his age in years on 1 September 2020?	26yr
7	On a coordingrid point A is at (3,4) but it is then moved two squares to the right and one square down.	
	What are its new coordinates?	(5 , 3)
8	How many days would a 200ml bottle of milk last if two kittens were fed 5ml each four times a day?	5
9	$15 \times 17 = 255$ . Write the answers to a $150 \times 170$ b $1.5 \times 17$ .	a 25500 b 25.5
10	Find the cost at £5.70 per metre of	
	a 10cm b 30cm.	a 57p b £1.71

11 A road on a map measured 4.5cm

map represent?

16cm

which represented a distance of 45km. What distance does 1mm on the

**a** Name the shape.

**b** Find its

**c** Find  $\angle$  A.

perimeter.

1km

**50**cm

55°

a parallelogram

\$12.50

1.1

В

5.4cm 4.6cm 3.5cm

40603

5656

298557

**1**p

**Answer** 

a 570001

b 508030

1	2083 80 -		
	ZUUJ — 0U =		

- 2003  $2 6 + \frac{7}{10} + \frac{5}{1000} =$ 6.705
- 3 2050mm = m 2.05m
- 4 3h 25min = min **155**min
- 5 six 2ps + five 5ps + three 10ps = **67**p
- 6 78.5 ÷ 100 = 0.785
- $7 \quad \frac{4}{5} = \frac{100}{100}$ 100
- 8 0.5l 345ml = ml155ml
- 9 27 + 18 = × 5 9
- 10  $1.8 \text{kg} \div 3 = \boxed{\text{g}}$ **600**g A box contains 10 bottles of shampoo

**Answer** 

Answer

each having a mass of 223g. Find the 11  $\frac{2}{3}$  of £3.60 = £2.40 total mass to the nearest  $\frac{1}{2}$ kg allowing 12  $\angle A = \bigcirc^{\circ}$ 30° 2.5kg or  $2\frac{1}{2}$ kg 230g for the box.

C

by 101.

a 8334

**b** 70305?

250g

62p

the number

1 Increase forty thousand by six hundred and three. Write the answer in digits.

2 Multiply the product of 8 and 7

3 How many less than 578 335 is

100g

25p

14cm

Find these

4 Find the total of 285 056 and 13 501.

The prices of two

different packets

of jelly are given.

- 6 By how many hundredths is 0.82 more than  $\frac{4}{5}$ ? 2 hundredths
- How much is saved by buying the 1 Write as a decimal the total of larger packets when purchasing eleven plus twenty-six thousandths. 11.026
- 500g of jelly? 2 Find a number which when multiplied by itself gives as the answer 8 Round each of these numbers to
  - the nearest whole number. **a** 64 a 8 a 5.5
- **b** 49. b 7 a 6 **b** 199.71 b 200 3 What is left after taking 17p from
- four 20ps? **63**p c 9.49 c 9 4 Write the decimal fraction which
- is equal to  $\frac{3}{20}$ . 0.15 Which two of these fractions are each equal to  $\frac{5}{6}$ ? 5 How many minutes from 10:55 a.m.
  - to 12:30 p.m.? 95min
- 6 By how many metres is 1.4km longer than 1250m? **150**m Port SE is halfway between 7 Find the difference between the
- S and E. largest and smallest of these decimals. 3.4 3.401 3.41 A ship sails east from port and then 0.01
- turns SE. Find the angle marked x. 135° 8 What is left over when 68p is
- divided by 7? **5**p A rectangle measures 8cm by 6cm. 9 Multiply 4.05kg by 100. **405**kg What is the length of the sides of a
- square which has the same perimeter? 7cm 10 Find the mean of these lengths.

4.5cm

measurements 11 What number is represented by of the shaded CM in Roman numerals? triangle. Write your answer in digits. 900

12

a the base **14**cm a 12 How many times is 260.6 greater than 2.606? 100 **b** the height b 8cm

# SECTION 2 | Test 4

A	Answer
1 $\frac{1}{4}$ of ten thousand =	2500
2 6 × 0 × 9 × 3 =	0
3 0.9 + 0.1 =	1
4 0.7 × 2 =	1.4
5 1632 ÷ 4 =	408
6 $f5.00 - eight 5ps = f$	£4.60
$7 \frac{35}{100} = \frac{1}{20}$	
8 $400g + \Box g = 0.75kg$	350g
9 2h 25min + 50min =	3h
<b>10</b> 3.5km − 2900m =  m	600m
11 Write 1005 using Roman numerals.	MV
12 Angle $x = \square^{\circ}$	82°
82° Angle $y = \blacksquare$ °	98°
×	

В	Answer
1 Find the product of 0.4 and 9.	3.6
What is the answer in grams when 24.5kg is divided by 100?	245g
<b>3</b> From 50 take 0.01.	49.99
4 After Christmas Day, how many days are there before New Year's Day?	6
5 Find the total of six 20ps and seven 10ps.	£1.90
Write 0.05 as a fraction with the numerator 1.	
<ul><li>Which of these numbers will divide into 81 without a remainder?</li><li>2 3 5 6 9</li></ul>	3 9
8 Find the cost of 3.5l at 26p per $\frac{1}{2}$ l.	£1.82
9 Which of these decimal fractions is equal to $\frac{3}{4}$ ?	
0.7 0.65 0.75	0.75
The length of a line is 15.6cm. Find half its length in millimetres.	78mm
11 5.4 ÷ 6 = 0.9. Write the answer to	
a 0.54 ÷ 6	a 0.09
b 0.054 ÷ 6.	b 0.009
12 Two angles in a triangle added together make 124°. Find the third angle.	56°

	SECTION	12   1631 4
C		Answer
	Find the number which is equal to $(9 \times 10^2) + 6$ .	906
	How many 4p sweets can be bought for £6.00?	150
ı	Find in metres the length of ribbon required to make 200 pieces each 8.3cm long.	16.6m
	How much greater than 582482 is the number 884492?	302010
	Midday temperatures on three consecutive days are 17°C, 15°C and 19°C. Find the mean temperature.	17°C
	Il of water has a mass of 1kg. Find the volume in litres of the water in a bottle if the water has a mass of 780g.	0.78l
i	An article priced at £4.20 was sold in a sale at a reduction of $\frac{1}{3}$ . Find the sale price.	£2.80
ı	On the chart each smiley face © represents 50 pupils at a local school. How many pupils attend the school?	850
		900000
9	William found the mass of 10 shuttlecocks to be 95g. Find the mass in kilograms of 100 shuttlecocks.	0.95kg
10	ABC is an equilateral triangle. Find	
(	C B a its perimeter in centimetres	a 25.8cm
ı	<b>b</b> the size of the angles at B and C.	b 60°
1	Yasmin went shopping with a £5 note in her purse. She had left two 50ps, one 10p and six 2ps. How much had she spent?	£3.78
12	Find the area of a the rectangle b each of the	a 108cm²
	triangles.	b 54cm <sup>2</sup>

4				
	$20000 = 20 \times 10 \times$			4.0
	$20000 = 20 \times 10 \times$			- 10

- 1 20 000 = 20 × 10 × 10 100
- 2 0.817 = 8 tenths + thousandths 17 thousandths
- 3 57 × 70 = 3990
- 4 0.3 × 6 = <u>1.8</u>
- 5  $24 (18 \times 0) =$  fractions from

Answer

- 6 £20.36 = 10ps + 6p 203 10ps 7  $\frac{4}{5} - \frac{1}{2} = \frac{3}{10}$
- 8 65ml × 100 = 1 6.5l
- 9 2.6cm + 3.9cm = mm 65mm
- 10 f × 9 = £40.50 £4.5011 1.5kg 280g =  $\blacksquare$ g 1220g
- 12 0.9 + 0.9 = 1.8

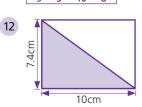
#### B Answer

- 1 Write as a decimal 1035 thousandths. \_\_\_\_\_\_ 1.035
- 2 Approximate 59.7p to the nearest 1p. 60p
- 3 a  $\frac{9}{10} = \frac{90}{100}$ b Write the fraction as a decimal. b 0.9
- 4 Which two of these angles when added together make two right angles?

8 How much change out of a £5 note

- 67° 103° 87° 113° 67° 113°
- 5 How many times 0.48 is 480? 1000
- 6 Find in millimetres the value of the digit underlined.
- 7 9 out of 25 = out of 100 \_\_\_\_\_\_\_ 36
- after spending £1.46? £3.54

  9  $\frac{1}{2}$ kg of tomatoes costs 80p.
- 9  $\frac{1}{2}$ kg of tomatoes costs 80p. Find the cost of 100g.
- 10 What fraction of  $\frac{1}{4}$ l is 150ml?
- Which of these fractions is between one-half and one-quarter in size?  $\frac{3}{5} \quad \frac{2}{3} \quad \frac{7}{10} \quad \frac{3}{8}$



Find the area of

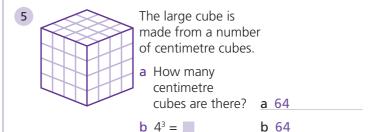
- a the rectangle a 74cm<sup>2</sup>
- b the shaded triangle.
- b 37cm<sup>2</sup>

C		Answer
	_	

- 1 How many bottles each holding  $\frac{1}{4}$ l can be filled from  $7\frac{1}{2}$ l? 30
- 2 A packet of 100 sheets of paper costs £2.30. Find the cost of 150 sheets. £3.45
- 3 Take the least of these decimal fractions from the greatest.

0.84 0.9 0.865 0.897 0.06

4 Lauren swims 15 lengths of the pool which is 20m long. How many metres short of  $\frac{1}{2}$ km does she swim? \_\_\_\_\_\_ 200m

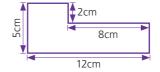


- 6 Ryan saved 60p which was  $\frac{5}{6}$  of his pocket money. How much was all his pocket money? 72p
- 7 2.8kg of coffee was put into
  10 packets of equal mass.
  How many grams of coffee
  were there in each packet?
  280g
- 8 Find the size in degrees of  $\angle A$  145°  $\angle B$  35°  $\angle C$ . 35°
- 9 The total cost of two full-price tickets and one half-price ticket was £55. Find the cost of
  - a one full-price ticket

    b one half-price ticket.

    b £11
- 10 What is the area in m<sup>2</sup> of a rectangular path which is 29m long and 50cm wide?  $\frac{1}{2}m^{2}$
- long and 50cm wide? 14

  11 Emma ran 9.875km in an afternoon.
  Round this distance to the nearest
  - a kilometre a 10km
    b tenth of a kilometre. b 9.9km
- 12 Find a the perimeter of the shape a 34cm
  b its area.
  b 44cm²



A	Answer
1 1200 ÷ 30 =	40
2 7p + 5p + 8p + 25p =	45p
$3 (7 \times 9) - (8 + 5) =$	50
$\frac{6}{25} = \frac{1}{100}$	
5 900g + 500g = ■kg	1.4kg
$6  4.908 = 4 + \frac{9}{10} + \frac{1}{1000}$	
7 $f0.86 - 19p = p$	67p
8 2km – 540m = m	1460m
9 0.09 + 0.06 =	0.15
10 250ml × 6 = 1	1.5l
11 2m 80cm ÷ 4 = cm	<b>70</b> cm
12 180° – (63° + 57°) =	60°

В	Answer
Write as a decimal the total of 200, 6, $\frac{7}{10}$ and $\frac{9}{1000}$ .	206.709
2 From the product of 7 and 9 take their sum.	47
3 Write as a fraction and simplify	
<b>a</b> 9 out of 30	$a^{\frac{3}{10}}$
b 24 out of 40.	b 3/5
4 How many days altogether are there in the months of April and May?	61
<ul><li>Find in grams the value of the digits underlined.</li><li>4.0<u>75</u>kg</li></ul>	<b>75</b> g
6 What must be added to 9.45 to make 10?	0.55
7 Change to decimal fractions.	
a <sup>27</sup> / <sub>50</sub>	a 0.54
b $\frac{9}{20}$	b 0.45
8 $\angle A = \angle B$ Find the size of each angle.	25°

9 Divide £2.75 by 10 and write the answer to the nearest penny.

10 Find the cost of 1.2m of tape at

11 Take 6 thousandths from 0.897.

12 Find in centimetres the perimeter of an equilateral triangle, the sides

of which measure 27mm.

40p per metre.

C		Answer
1	By how many is 8 <sup>2</sup> greater than 3 <sup>3</sup> ?	37
2	Approximate 25 928	
	a to the nearest 1000	a 26000
	<b>b</b> to the nearest 100.	b 25900
3	Find the date which is nine days after 26 September.	5 October
4	Round 3.52 to the nearest whole number.	4
5	What is the difference in millilitres between the largest and smallest of these quantities?	
	$\frac{1}{2}$ l 450ml $\frac{3}{5}$ l 620ml	170ml
6	ABC is a right-angled triangle. Find in degrees	
	a the angle marked x	<u>a 146°</u>
	b the angle marked y.	<u>b</u> 56°
7	A length of plastic strip 54cm long is cut into two pieces so that one is five times as long as the other. What is the length of each piece?  George spent €80 which was ½	45cm9cm
	of his savings. How much in savings did he have to begin with?	€200
9	On a coordinate grid point A is at (2, 0) but it is then moved three squares to the right and one square up. What are its new coordinates?	(5 , 1)
10	A 5p coin has a mass of 3.25g. Find in grams the mass of forty 5ps.	130g
11	A circular tin has a diameter of 6.4cm. What is a the length and b the width of the smallest rectangular tray which	<u>a 51.2cm</u>
	would contain a single row of 8 tins?	b 6.4cm
12	Hannah stopped for coffee at a café.	
	a How far from home was the café?	a 4km
	b At what time did she stop for coffee?	b 10:00
	Hannah's journey	
	one from the following state of the following	00

Time

**28**p

**48**p

0.891

8.1cm

1	Write in di	igits the	number	forty
		_		-

- thousand six hundred and five.
- $(55-8)-(7\times0)=$
- 3 12 weeks = ☐ days
- 4  $\frac{3}{10}$  of  $1\frac{1}{2}l = ml$
- 5 Write as a decimal fraction.
  - $\frac{59}{100}$  $b \frac{7}{100}$
- $6 \quad 0.21 0.15 =$
- 7 5.405m = mm
- 8 four 20ps + nine 2ps = f
- 9 a  $0.45 = \frac{100}{100}$  $b = 0.08 = \frac{1}{25}$
- 10 208g + 1.5kg = kg
- 11  $p \times 6 = £4.56$
- 12  $\frac{755}{7} = 1$  r

В

## **Answer**

a 0.59

b 0.07

£0.98

40605

84 days

450ml

0.06

5405mm

1.708kg

107 r

**Answer** 

a 0.73

 $b^{\frac{73}{100}}$ 

**76**p

- 1 Write each of these fractions with a denominator of 100.
  - $a \frac{3}{10}$
  - $b^{\frac{2}{5}}$

C

 $a^{\frac{30}{100}}$ 

**Answer** 

- $c \frac{4}{100}$
- 2 A school was built in 1902. For how many years will it have been in use by the year 2020?
- **118**yr
- 3 What decimal fraction is equal to
  - a 57%
  - b 8%?

- a 0.57 b 0.08
- 4 How many packets each containing 365g can be made from  $36\frac{1}{2}$ kg?
  - 100
- 5 Write the next two decimal numbers in this sequence.
  - 1.75, 2.0, 2.25, ,
- 2.5 2.75
- 6 Prices in a shop were increased by  $\frac{1}{3}$ . Find the new price of articles which cost
  - a 48p

**64**p

**b** 84p.

- b £1.12
- 7 From a watering can holding 10l of water, 2.75l are poured on the plants. Find in litres and millilitres the quantity which remains.
- **7**l 250ml

2 47 out of 100 = 47 per cent (%). Write as a % a 79 out of 100

simple fraction.

b Write this decimal fraction as a

a What decimal fraction of the 100 small

squares is shaded?

**b** 4 out of 100.

- 79% 4%
- 3 By how much is £15 more than fifteen 50ps?
- £7.50
- 4 Find in millilitres the value of the digits underlined. 8.305l
- 5 Which year is MMXI?
- 6 How many days are there between 28 November and 7 December?
- 7 89% of a sum of money is spent. What percentage is left?
- 8 Find the cost of 600g at 50p per  $\frac{1}{2}$ kg.
- 9 The temperature fell 7°C from 4°C. What is the new temperature?
- 10 Approximate
  - a 10046 to the nearest 100
  - b 3kg 370g to the nearest 0.5kg.
- 11 Find the change from a £10 note after spending £7.62.
- 12 The area of a rectangle is 47.5cm<sup>2</sup>. Its width is 5cm. Find its length.

- - 305ml
  - 2011
  - 8
- 11%
- **60**p
  - **−3°**C
- 10000 3.5kg
- £2.38
- 9.5cm

- The sides of the cube each measure 5cm. Find the area of
- a one face
- a 25cm<sup>2</sup>
- **b** all the faces.

96

**6**l

**24**l

b 150cm<sup>2</sup>

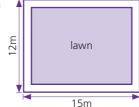
The mean of eight numbers is 12. Find the sum of the eight numbers.

10 10 tennis balls cost \$8.40.

- Find the cost of three tennis balls. \$2.52
- 11 30l of orange squash is made by mixing 1 part concentrate with 4 parts water. Find the volume of
  - a concentrate

**b** water.

12



The path round the lawn is 1m wide. Find the area of

the lawn.

130m<sup>2</sup>

A	Answer
1 50000 = 500 ×	100
2 $(27 \div 3) = (                                 $	63
3 a $\frac{1}{2} = \square$ out of 100	a 50
$\frac{1}{2} = 10\%$	50%
$b \frac{1}{4} = \square$ out of 100	b 25
$\frac{1}{4} = 10\%$	25%
4 $1\frac{1}{2} - \frac{7}{10} =$	$\frac{8}{10}$ or $\frac{4}{5}$
5 $5\frac{1}{2}$ min = $\square$ s	330s
6 0.7 × 5 =	3.5
7 f0.19 × 6 =	£1.14
$8 \frac{17}{20} = \frac{11}{100} = 10\%$	$\frac{85}{100} = 85\%$
9 4.385 – 4.325 =	0.06
10 $\frac{2}{3}$ of 75p =	<b>50</b> p
11 850g × 4 = kg	3.4kg
12 $f4.20 = six 50ps + 20ps$	6 20ps

10	$\frac{1}{3}$ OT /5p =			50
11	$850g \times 4 = kg$			3.4k
12	f4.20 = six 50ps + 2	20ps		<b>6</b> 20p
В			Answer	
1	Which of these numbe multiples of 8?  36 48 60 72	rs are	48	7.
2	Write as a percentage.	a $\frac{63}{100}$ b 0.07	a b	63% 7%
3	Write four hundred and one hundred and sever		d, 	402 10
4	Find the cost of 750g a per kilogram.	t 48p		36
5	What must be added to make £6.00?	o £4.74	£1.26	
6	Write in 24-hour clock of an hour earlier than			22:5
7	- I	the area of		

9	4.385 – 4.325 =	0.06
10	$\frac{2}{3}$ of 75p =	50p
11	850g × 4 = ■kg	3.4kg
12	f4.20 = six 50ps + 20ps	6 20ps
В		Answer
1	Which of these numbers are multiples of 8?	
	36 48 60 72	48 72
2	Write as a percentage. a $\frac{63}{100}$ b 0.07	a 63% b 7%
3	Write four hundred and two thousand one hundred and seven in digits.	, 402 107
4	Find the cost of 750g at 48p per kilogram.	36р
5	What must be added to £4.74 to make £6.00?	£1.26
6	Write in 24-hour clock time a quarter of an hour earlier than 23:10.	22:55
7	Find the area of the right-angled triangle.	31.5cm²
8	In a class 36% of the children were boys. What percentage were girls?	64%
9	360° − (80° + 75° + 120°) = □°	85°
10	Find to the nearest penny $\frac{1}{8}$ of 95p.	12p
11	Find the mean of these volumes.	
	650ml 800ml 350ml	600ml
12	What is the perimeter in centimetres of a regular hexagon each side of which measures 58mm?	34.8cm
		2

C		Answer
1	Write these decimal fractions as percentages.	
	a 0.3	a 30%
	<b>b</b> 0.07	b 7%
	c 0.84	c 84%
2	Leah had in her purse three 50ps, two 20ps and two 5ps. She spent £1.17. How much had she left?	83p
3	Write the product of 0.007 and 4.	0.028
4	What is the value of 1% of	
•	a f1	a 1p
	b 1kg?	b 10g
5	The diagram represents a length	
3	of 72m. Find the length represented by the shaded part.	27m
6	Shahid spends 38% of his pocket money on bus fares and 24% on books. What percentage of his money remains?	38%
7	1p has a mass of 3.56g. Find the mass in kilograms of £10 of 1p coins.	3.56kg
8	Find the size in degrees of $\angle x$ , $\angle y$ , $\angle z$ . $\angle y$	110° 70° 110°
9	20 bags of flour were bought for £10.80 and sold at 60p per bag. Find the profit after selling all the bags.	£1.20
10	Round each of these numbers to the nearest whole number.  a $9\frac{7}{12}$ b 100.06  c 4.815	a 10 b 100 c 5
11	Tom received 2p each time Megan received 3p. How much did they each receive from a total of £2.00?  Tom  Megan	80p
12	How many tiles each 20cm square are needed to cover this surface?	125
	E	

5m

2F	CHON 2   lest 9		
A		Αı	nswer
1	Write in digits one hundred and four thousand.		104000
2	f1.11 + 8p + 9p + 24p =	£	1.52
3	0.35 = thousandths		350 thousandths
4	2.8l – 630ml = ml		2l 170ml
5	$350g \times 5 = \boxed{kg}$		<b>1.75</b> kg
6	$\frac{57}{100}$ of £500 =	£	285
7	7m 28cm ÷ 8 = □ cm		91cm
8	297 + 103 = 40 ×		10
9	$1 - (\frac{3}{10} + \frac{2}{5}) =$		<u>3</u>
	$8 \times 7 = \times 0.1$		560
11	$\frac{\text{f14.42}}{7} =$	£	2.06
	$a \frac{1}{4} = 0.25 = 10\%$	а	25%
	$b \frac{3}{4} = 0.75 = 3\%$	b	75%
	·		
В		A	nswer
1	Write as decimal fractions. a $\frac{3}{20}$	a	0.15
	b 8/25	b	0.32
2	What is the difference in grams between $1\frac{3}{4}$ kg and 950g?		800g
3	What length when divided by 6 is equal to 2m 50cm?		15m
4	The three angles of a triangle each measure 60°. Describe the triangle according to		
	a its angles		acute-angled
	b its sides.	b	equilateral
5	Find the value of a 50% of 650	а	325
	b 25% of £0.72.	b	18p
6	How many times is 200ml contained in 2.8l?		14
7	Approximate to the nearest centimetr	e.	
	a 20.3cm	a	<b>20</b> cm
	b 79mm	b	8cm
8	Write 2017 using Roman numerals.	_	MMXVII
9	Find the length in metres which is equ to the digits underlined. 6.5 <u>35</u> km	ıal —	35m
10	1 1 2 3		4.5
	a 100g b 300g.	a b	15p 45p
	<b>2</b> 300g.	D	430

11 Find in centimetres the perimeter of a rectangle which is 65mm long

and 30mm wide.

12 a 0.1 = \(\bigwedge \)%

**b** 0.4 = \|\|\%

C		Answer
1	18% of the people at a cinema were men, 39% were women and the rest were children. What percentage were children?	43%
2	Katie went on holiday on 29 July and returned on 7 August. For how many days was she on holiday?	10
3	Josh saved $\frac{1}{4}$ of his pocket money and spent $\frac{1}{2}$ of the remainder. What fraction did he spend?	
4	The population of a small town was ten thousand. 50% of the people were under the age of 25. How many was that?	5000
5	What is the length in centimetres of the longest straight line that can be drawn inside this circle?	10.8cm
6	50% of a sum of money was £7.00. Find the whole sum of money.	£14
7	How many packets each containing 0.2kg can be made from 35kg?	175
8	A milkshake contains 7 parts of milk and 1 part of syrup. How many millilitres of each are required to make 21?	_1750ml250ml
9	Kai's walking pace measures 60cm. How many metres has he walked after taking 50 paces?	30m
10	The mass of 120kg of dry sand is increased when wet by 10%. Find its mass when wet.	132kg
11	A scooter costing £25 is reduced by $\frac{1}{20}$ . Find	
	a the price reduction	a £1.25
	b the new price.	b £23.75
12	Find the area of	
	a the front	a 72cm <sup>2</sup>
	b the end	b 31.5cm <sup>2</sup>
	c the bottom of the box.	c 112cm <sup>2</sup>
	end front 16cm	

**19**cm

10%

40%

а

## SECTION 2 | Test 10

**Answer** 

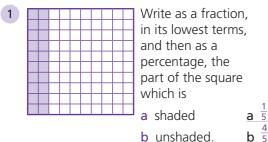
a isosceles

24°

**72°** 

A	Answer
1 6009 + = = 8000	1991
2 f3.75 + f3.75 + f3.75 + f3.75 =	£15.00
3 $\frac{7}{20}$ of £2.00 = $\square$ p	<b>70</b> p
4 $16\frac{2}{3} = \frac{1}{3}$	<u>50</u> 3
5 19min + ■h ■min = 3h	2h 41min
$6  \frac{11}{25} = \frac{11}{100} = 10\%$	$\frac{44}{100} = 44\%$
7 $f2.00 - (78p + 30p) = \square p$	92p
8) $\frac{3}{10}$ of 1m 80cm = $\frac{1}{10}$ cm	54cm
9 0.05 × 8 =	0.4
10 $\frac{2\text{kg }400\text{g}}{5} = \Box g$	480g
11 a 0.7 = \(\bigcup_{\circ}\)%	<u>a 70%</u>
b 0.9 = \ \ \%	b 90%
12 0.09 × 12 =	1.08

В	Answer



- 2 How many right angles are there in 270°?
- 3 By what length is 50.4km longer than  $47\frac{1}{2}$ km? 2.9km
- 4 Increase £3.70 by 10%. £4.07
- 5 How many millilitres must be added to 3050ml to make  $3\frac{1}{4}$ l?
- 6  $\frac{1}{4}$  of a sum of money is 79p. What is 50% of the money? £1.58
- 7 Round 3.595 to the nearest tenth.
- 8 Write as a fraction and simplify.  $a^{\frac{1}{5}}$ a 20% **b** 2%  $b^{\frac{1}{50}}$
- 9 Approximate to the nearest  $\frac{1}{2}$ kg. a 7.65kg  $7\frac{1}{2}$ ka
- **b** 3850g 10 Find the product of 0.2 and 0.3.
- 0.06 11 a Write 20% as a decimal fraction. a 0.2 b What is 20% of one thousand? b 200
- 12 Use the formula A = lb to find the area of a rectangle when l = 16.5 cm and b = 9 cm.

148.5cm<sup>2</sup>

20%

80%

200ml

3.6

4kg

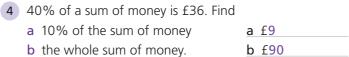
3

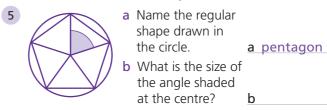
1	Find the profit on a scarf which was bought for £8.35 and sold for £10.	£1.65	
2	Two angles of a triangle each		

measure 78°.

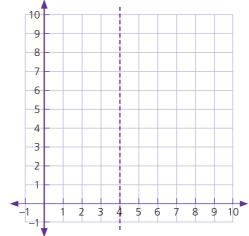
C

- a Name the triangle. **b** Find the third angle.
- 3 The line has been drawn to a scale 1mm to 10m. What distance in metres does it represent? 780m 7.8cm

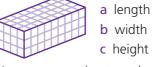




- 6 A bus runs every 35min starting at 07:40. At what time does the third bus leave? 08:50
- 7 How many chocolates at three for 20p can be bought for £3.80? 57
- 8 Write the coordinates of the point (2, 5) when it is reflected in the line x = 4. (6 5)



- Which year is represented in Roman numerals as MCMLXXXIV?
- 10 0.5kg of mushrooms cost £1.20. What is the cost of a 100g a £0.24 **b** 0.9kg? b £2.16
- 11 This shape is built from centimetre cubes. Find its dimensions.



12 How many centimetre cubes are used to build the block?

9cm b 4cm 3cm C

108

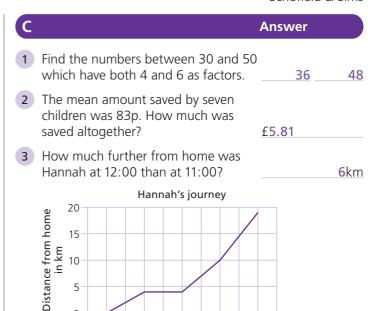
1984

11 0.073 = thousandths

Answer	
	1000
	820
	<b>0.49</b> kg
	0.07
a	9%
b	36%
	<u>7</u>
	30cm
£0.56	
	<u>3</u> 5
2min	<b>55</b> s
	a b £0.56

12	75% of 1.2kg = <b>■</b> g	_			900g
В		Αı	nswer		
1	Find the total in litres of 700ml, 300ml and 450ml.  How much greater than $\frac{1}{2}$ is				1.45l
	a 0.64	а	0.14		
	b 0.502?	b	0.002		
3	What is the time $\frac{3}{4}$ h later than 23:20?				00:05
4	Find the cost of 50g at £1.40 per $\frac{1}{2}$ kg				<b>14</b> p
5	Round 0.249 to the nearest tenth.				0.2
6	Write each of the following as a an improper fraction and b a mixed number.				
	67 tenths	а	<u>67</u> 10	b	6 <sub>10</sub>
	23 sixths	а	<u>23</u> 6	b	$3\frac{5}{6}$
7	Find the difference between $\frac{3}{4}$ of £1 and 0.8 of £1.				<b>5</b> p
8	How many grams are there in				

В		Answer	
1	Find the total in litres of 700ml, 300ml and 450ml.		1.45
2	How much greater than $\frac{1}{2}$ is		
	a 0.64	a 0.14	
	b 0.502?	b 0.002	
3	What is the time $\frac{3}{4}$ h later than 23:20?		00:0
4	Find the cost of 50g at £1.40 per $\frac{1}{2}$ kg		14
5	Round 0.249 to the nearest tenth.		0.
6	Write each of the following as a an improper fraction and b a mixed number.		
	67 tenths	a <sup>67</sup> / <sub>10</sub>	$b 6\frac{7}{10}$
	23 sixths	a 23/6	$b \ 3\frac{5}{6}$
7	Find the difference between $\frac{3}{4}$ of £1 and 0.8 of £1.		5
8	How many grams are there in $\frac{1}{8}$ of 1kg?		125
9	Write each of these percentages as a decimal and b a simplified fraction	١.	
	80%	a 0.8	$\frac{4}{5}$
	30%	a 0.3	$b \frac{3}{10}$
10	What is the value of $x$ when 39 less than $x$ is 76?		11
11	What percentage of £1.00 is		
	a 54p	a	549
	b 6p?	b	69
12	Find in m <sup>2</sup> the area of a rectangle 16.8m long and 50cm wide.		<b>8.4</b> n



11:00

Time

12:00 13:00

4 The distance between two towns is 580km. If a map is drawn to a scale of 1cm to 100km what length in millimetres represents this distance?

10:00

**58**mm

5 Write as a fraction in its lowest terms.

a 100g of 400g

0

73 thousandths

09:00

b 9km of 45km

c 500ml of  $1\frac{1}{2}$ l

 $\overline{a}$  $b \frac{1}{5}$  $C^{\frac{1}{3}}$ 

6 What is the temperature for 7°C below zero?

**-7°**C

7 Write the year 2014 using Roman numerals.

**MMXIV** 

8 Find the missing divisor in this example.

9

9 A bag contained an equal number of 10ps and 5ps to a total value of £4.50. How many coins were there of each kind?

30

10 By putting in a decimal point make the 7 in each number have the value of 7 thousandths.

a 2070

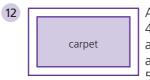
a 0.207

**b** 67

b 0.067

11 Find the smallest amount of pence that can be added to £2.55 to make it divisible exactly by 7.

**4**p



A carpet 6.5m by 4m is fitted onto a floor to leave a border of 50cm wide.

Find a the length **7.5**m b the breadth of the room. b 5<sub>m</sub>

# SECTION 2 | Test 12

Answer
70
4505 thousandths
5m20cm
110
7100g
$\frac{5}{100} = 5\%$
20806
0.54
£3.50
360
2.81
£3.86

В			Answer	
1	By how many forty thousan	is 30090 less than d?		9910
2	Find the mea 47p, 62p, 13p	n of these amounts. and 18p		<b>35</b> p
3	What fraction	n of one hour is		
	a 12min		a ½	
	b 50min?		$b^{\frac{5}{6}}$	
4	Find 5% of £	4.00.		<b>20</b> p
5	N	How many degrees are there turning clockwise		
	W	a from SE to W	a	135°
	S	b from N to SW?	b	225
6		rence between the mallest of these numbers		
	2.202 2.0	2 2.22		0.2
7	What is the c	ost of 800ml at		

90p per litre?

9 What percentage isa 20 of 200

**b** 250g of 1kg?

8 By how many twelfths is  $\frac{1}{4}$  less than  $\frac{1}{3}$ ?

10 Find the value of x when  $\frac{x}{5} = 3$ .

11 Find to the nearest pence  $\frac{£7.87}{8}$ 

12 What year is represented by MCMXLV?

C		Answer
1	What number when divided by 6 equals the product of 5 and 9?	270
2	How many hours and min are there from 09:40 to 13:25?	3h 45min
3	Of these quadrilaterals which has	
	a four equal sides	a rhombus
	<b>b</b> only one pair of parallel sides?	b trapezium
	rectangle rhombus parallelogran	n trapezium
4	20% of 700 children have school lunches. How many	
	a have school lunches	a 140
	b bring a packed lunch from home?	b 560
5	How many sectors of the given size can be cut from the circle?	3
6	Seven packets of equal mass together have a mass of 4.55kg. Find in grams the mass of each packet.	650g
7	Which of these numbers are multiples of both 6 and 8?	
	16 24 30 36 42 48 64	24 48
8	One part of weed killer is mixed with 5 parts of water. How many millilitres of each are required to make 3l of weed killer?	_500ml _2500ml
9	Charlie buys a bicycle for £80 and pays for it in weekly instalments of 10%.	
	a For how many weeks does he pay?	a 10
	<b>b</b> How much is the weekly payment?	b f8
10	Put these decimals in ascending order.	
	0.75 0.7 0.57 0.8 0.5	
	0.50.570.7	0.75 0.8
11	A car travels 10km on 1l of petrol. How much petrol does the car use if it travels on average 450km daily for six days?	270l
12	a How many cm cubes fit exactly into the	

into the

b If the box is 3cm high, how many

cm cubes are needed to fill it?

bottom of the box?

a 105

b 315

**72**p

10%

**25**%

15

**98**p

1945

Write the numbers 1 to 20 down the side of a piece of paper.

Write alongside these numbers the **answers only** to the following questions.

Work as quickly as you can. Time allowed – 10 minutes.

- 2 Aaliyah has saved £2, five 20ps, seven 10ps, six 5ps and eight 2ps.

  By how much is the total less than £10?

  £5.84
- **3** 385 373 + 10 505 = **395 878**
- $\frac{7}{8}$  of a sum of money is 63p. Find the amount of all of the money.
- The diagram shows how Lucy spends her lottery winnings.
  What percentage of the money is put into savings?

  45%
- 6 59  $\times$  37 = 2183. Write the answer to 0.59  $\times$  37.
- 7 What number is 10 more than –4?
- 8 90% of 580 pupils went on a school trip. How many children remained at school?
- Find to the nearest kilometre the distance from Troup to Ling.

  24km
- 10 The width of a rectangular path is  $\frac{1}{2}$ m. Its area is 27.5m<sup>2</sup>. Find its length.
- 11 Find the mass in kilograms and grams of 20% of 18kg. \_\_\_\_\_3kg 600g
- In this parallelogram find in degrees the angle marked y.

  65°
- Prices at a sale were reduced by 5%. How much is paid for a notebook priced at €1.80? €1.71
- The total of 7 numbers is 1428. What is the mean average of the numbers?
- 16 Find to the nearest penny the cost of 1.5m of ribbon at £1.05 per metre. £1.58
- How many centimetre cubes are needed to fill the box?

  180

- 20 Write the year 1956 using Roman numerals.

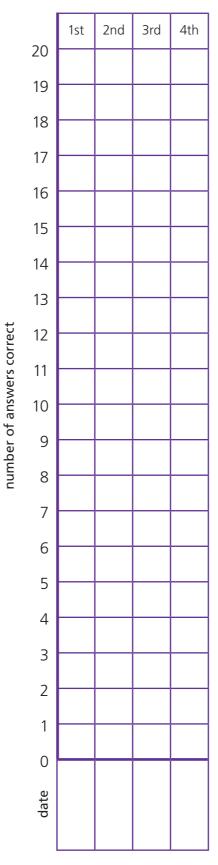
  MCMLVI

You will work through Progress Test 2 at **four** different times – once at the end of Section 2, then again after you have completed each of Section 3 Test 4, Test 8 and Test 12.

When you first complete the test:

- a colour the first column to show the number of answers correct out of 20
- **b** enter the date.

Each time you take the test, enter the result and the date in the marked columns.



A	Answer
1 Write in digits, two hundred and six thousand and forty.	206040
2 4.008 = thousandths	4008 thousandths
3 39 × 200 =	7800
4 seventeen 20ps and six 10ps = f	£4.00
5 0.1 – 0.05 =	0.05
6 7.045 km = km m	_7km45m
7 10% of 3kg = ■g	300g
8 $\frac{2}{5}$ of £1.40 = $\square$ p	56p
9 450ml × 8 = ■l	3.6l
10 a $\frac{7}{12} = \frac{21}{12}$	a 21 36
$b \frac{27}{30} = \frac{10}{10}$	b 9 10
11 $\frac{3}{4}$ h – 18min = min	27min
12 $\frac{£8.96}{7} =$	£1.28

В		Answer
1	Find the total of 17p, 34p and 29p. Write the answer as £s.	£0.80
2	What fraction in its simplest form is 150ml to 1l?	<u>3</u>
3	Approximate to the nearest whole number.	
	a $9\frac{2}{3}$	a 10
	b 24.06	b 24
4	Find the cost of 5.2m at 40p per metre.	£2.08
5	By how many is 99 060 less than one hundred thousand?	940
6	Write the 24-hour clock time which is 16min later than 23:45.	00:01
7	How many times is $\frac{3}{4}$ contained in $4\frac{1}{2}$ ?	6
8	What percentage is	
	a 3p of £1.00	a 3%
	b 35cm of 1m?	b 35%
9	Find the difference between 0.85l and 900ml.	50ml
10	What mass in kilograms is 7 times 350g?	2.45kg
11	Find the perimeter of a rectangle which measures 8.4cm by 5.9cm.	28.6cm
12	$x \times 9 = 7$ m 200mm. Find the length in millimetres which is equal to $x$ .	800mm

C		Answer	
1	How many hundredths must be added to 3.81 to make a total of 4?	19	hundredths
2	A bottle holds 250ml of juice. How many bottles can be filled from 10l?		40
3	Of the people attending a tennis match 57% were men, 29% were women and the remainder were children. What percentage were children?		14%
4	A car travelled 300km at a speed of 60km per hour (km/h). How long did the journey take?		<u>5h</u>
5	By how many pennies are seven 10ps greater than the total of eight 5ps and nine 2ps?		12p
6	What fraction of the circle is a unshaded b shaded?	a $\frac{7}{12}$ b $\frac{5}{12}$	
7	A metal strip is 20cm long. How many such strips can be cut from two lengths each 5m 60cm long?		56
8	A bus arrived at the station at 18:23 but it was 35mins late due to heavy traffic. Find the scheduled arrival time.		17:48
9	The price for $\frac{1}{2}$ kg of carrots in four consecutive weeks was 36p, 32p, 28p, 24p. Find the mean price per $\frac{1}{2}$ kg.		30p
10	The average length of three pieces of wood is 13cm. Two of the pieces measure 12cm and 18cm. What is the length of the third piece?		9cm
11	A map is drawn to a scale of 1cm to 1m. Express this scale		
	a as a fraction	a 1/100	
	b as a ratio.	b 1:100	)
12	Find in cm <sup>2</sup> the area of		
	a the front	a	105cm <sup>2</sup>
	<b>b</b> the bottom of the box.	b	157.5cm <sup>2</sup>
	too		

top

front

17.5cm

end

9cm

# SECTION 3 | Test 2

A		Answer
1 Write in word	ds the number 41000	06.
four hundre	ed and ten thousand	d and six
2 375m = kr	n	0.375km
3 0.009 + 0.45	i =	0.459
4 85ml × 100 =	= <b> </b>	8.51
5 a 7% of £1.0	00 = <b>p</b>	<b>a</b> 7p
<b>b</b> 7% of £6.	00 = <b>p</b>	b 42p
6 $\frac{5}{8}$ of 72p =		45p
<b>7</b> 0.875kg =	lg	875g
8 108min =	h min	1h 48min
9 634 ÷ 1000 =	=	0.634
10 \$0.08 × 30 =	=	\$2.40
11 0.2 – 0.17 =		0.03
12 25% of 150 :	=	37.5 or 37 <sup>1</sup>
В		Answer
1 Write as a de	cimal the total of 10,	
$\frac{3}{10}$ and $\frac{17}{1000}$ .		10.317
2 Find the prod	duct of 7, 9 and 5.	315
What is the couper $\frac{1}{2}$ kg?	cost of 750g at 48p	
By how many than $\frac{1}{2}$ ?	$y$ sixths is $\frac{2}{3}$ greater	
•	ivided into three parts	
What percen is each part?	tage of the whole	A 30%
A	ВС	B 50%
		<u>C</u> 2076
Write in gran 7 in 6.875kg	ns the value of the	70g
7 Find the num	ber of days, not cour	nting
the first, fron	n 21 June to 7 July.	16 days
8 Decrease £3.	50 by 20%	<u>£</u> 2.80
	r the largest and nese numbers.	
2.01 2.11	2.001 2.101	4.111
10 By how many less than 10?	y hundredths is 9.07	93 hundredths
11 Write a £10	0.62 to the nearest £	a £11
<b>b</b> 313	330ml to the nearest	$\frac{1}{2}$ l. b $3\frac{1}{2}$ l

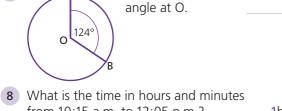
15cm long by 50mm wide.

	5201101	
C		Answer
1	Joe cycled 30km each day for a fortnight. How many kilometres did he cycle altogether?	420km
2	Rose paid 46p with a £1 coin and received three coins as change. Name the three coins.	_50p _ 2p _ 2p
3	The circumference (the distance around the edge) of a wheel is 1m. How many times does the wheel turn in going 0.75km?	750
4	y $x$ In the number 28.038 how many times is the 8 marked $x$ smaller than the 8 marked $y$ ?	1000
5	3m of cable cost £3.60. Find the cost of 15m.	£18.00
6	On a coordinate grid point A is at (5, 2) but it is then moved two squares to the left and one square down. What are its new coordinates?	(3,1)
7	A parcel has a mass of 1.8kg. Find the mass in grams of a parcel which is two-thirds of this mass.	1200g
8	16.1.13 18.4.13 17.7.12 The dates of birth of three children are given.	
	a By how many months is the oldest child older than the youngest?	a 9mth
	<b>b</b> In which year will the youngest child be 35 years old?	b 2048
9	2.25l of milk are poured in equal amounts into five glasses. How many millilitres are there in each glass?	450ml
10	is called an axis of symmetry. Which of these shapes A, B, C or D has	٨
	one axis of symmetry?	A
	A B C	D
11	Rory received a gift of a £10 note. He spent £3. What % did he keep?	70%
12	Find the area of the shape in cm <sup>2</sup> .	122cm²

**75**cm<sup>2</sup>

SECTION 3   Test 3			
A	Answer		
1 50 × 10 × 1000 =		500000	
2 1.2km − 900m = ■m		300m	
3 $48p \times 7 = f$	£3.36		
4 29 + 25 = 6 ×		9	
$5  5 - 3\frac{3}{8} =$		1 <u>5</u>	
6 75% of €10 =	€7.50		
7 3kg ÷ 8 = ■g		<b>375</b> g	
8 a 0.45 = \(\bigcup\) %	a	45%	
b $\frac{11}{50} = 10\%$	b	22%	
9 400ml + 250ml + 500ml = ■l		1.15l	
10 $0.84 = $ thousandths	<b>840</b> t	housandths	
11 eight 5ps + 2ps = 60p		<b>10</b> 2ps	
12 70° + 38° + • ° = 180°		72°	
В	Answer		
1 Write in words the number 1 000 000.	on	e million	
2 How much change from £4.00 after			

В		Answer
1	Write in words the number 1 000 000.	one million
2	How much change from £4.00 after spending £3.26?	74p
3	What percentage of 2kg is 500g?	25%
4	Find the cost of 1m 30cm at 80p per metre.	£1.04
5	What is the difference in millimetres between 3.9cm and 4.6cm?	7mm
6	Divide the sum of 38 and 27 by 5.	13
7	A Find the reflex	236°



- from 10:15 a.m. to 12:05 p.m.? **1**h 50min
- 9 How many times is 300ml contained in 1.8l?
- 10 The total mass of five parcels is 2kg 400g. Find the average mass of the parcels. **480**g
- 11 What fraction in its simplest form is equal to a 15% b 4%?
- 12 Find the answer to CMX LIV and write the answer using Roman numerals.

			with the denominator 100
	c as a dec d as a per		
6	Chloe gave	e a 50p a item whi	nd a 20p to ch cost 57p. did she receive?
7	Find the le	ngth of a	es 10cm by 6cn nother rectang its width is 4cm
8	18 × 56 = than 1008		ow many more 9?
9		the Find	circumference owheel is 248cm the distance elled in metres i ing 100 turns.
10	mass is for	packing.	el is 10kg. 5% o Find in kilogra s of the content
11			28. Find to the cost of one muf
12	65° x	Z	Find the size in degrees of $\angle x$ , $\angle y$ , $\angle z$ . $\angle x$ $\angle y$

		Scholicia & Sims
C		Answer
1	Faye wrote the total of £2.50, £3.50 and £2.75 as £9.25. By how much was her total wrong?	50p
2	Complete the set of square numbers between 10 and 101 by finding <i>x</i> and <i>y</i> .	
	$S = \{16, 25, 36, x, 64, y, 100\}$	x 49
		y 81
3	1l of water has a mass of 1kg. Find the mass of 850ml of water.	850g
4	A plan is drawn to a scale of 1mm to 50m. What length in metres does a line measuring 5cm on the plan represent?	2500m
5	Write the part which is shaded	
3	a as a fraction	a $\frac{13}{20}$
	b as a fraction	<u>a</u> 20
	with the	
	denominator 100	b $\frac{65}{100}$
	c as a decimal	b 100 c 0.65
	d as a percentage.	d 65%
		<u>u</u> 0570
6	Chloe gave a 50p and a 20p to pay for an item which cost 57p.  How much change did she receive?	13p
7	A rectangle measures 10cm by 6cm. Find the length of another rectangle of the same area if its width is 4cm.	15cm
8	$18 \times 56 = 1008$ . How many more than 1008 is $18 \times 59$ ?	54
9	The circumference of the wheel is 248cm. Find the distance travelled in metres in	249.5
	making 100 turns.	248m
10	The mass of a parcel is 10kg. 5% of it mass is for packing. Find in kilograms	S
	and grams the mass of the contents.	9kg500g
11	10 muffins cost £6.28. Find to the nearest penny the cost of one muffin	63р
12	Find the size in degrees of	
	$(x, \angle y, \angle z)$	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	115°
	∠y ∠y	65°
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	115°

**DCCCLVI** 

# SECTION 3 | Test 4

Α		Answer
1	2.5m + 43cm =cm	293cm
2	f0.96 = eight 2ps + 20ps	<b>4</b> 20ps
3	Write in digits $\frac{1}{2}$ million.	500000
4	$\frac{4}{5} = 10\%$	80%
5	$\frac{5}{8} + \frac{1}{2} + 2 =$	31/8
6	1.35l =   ml	1350ml
7	150 ÷ 8 = ■ r	18 r 6
8	4.38 × 6 =	26.28
9	f1.94 - 86p = f	£1.08
10	5% of 300g =	15g
11	$\frac{9}{10}$ of £4.00 =	£3.60
12	1.05km + _ m = 2km	950m
В		Answer
1	Write as a decimal, fourteen units plus seventeen thousandths.	14.017
2	How many pennies remain when £1.11 is divided by 9?	3р
3	Find the product of 0.05 and 8.	0.4
4	What fraction in its simplest form is	
	a 40min of 1 hour	$\frac{2}{3}$
	b 300ml of $\frac{1}{2}$ l?	$b^{\frac{3}{5}}$
5	a Write the date which is 7 months later than 1 September 14.	a 1 April 15
	b How many days are there in that month?	b 30
6	Find the cost of 1kg 200g at 50p per $\frac{1}{2}$ kg.	£1.20
7	a 20% of £4.50	a 90p
	b 60% of £4.50	b f2.70
8	How many times greater than 3.04 is 3040?	1000
9	A car travels at 54km per hour. How far does it travel in 30min?	27km
10	Which of these angles are reflex angle	es?
	105° 70° 190° 175° 210°	190° 210°
11	Approximate	
	a 5050 to the nearest 100	a 5100
	b 29632 to the nearest 1000.	b 30000
12	The area of a rectangle is 60m <sup>2</sup> . Its length is 8m. Find the width	
	of the rectangle.	<b>7.5</b> m

C				Answer
1	The heights of the 140cm, 160cm a Find the average and centimetres.	nd 135cr	n.	1m 45cm
2	A car travels 170l How many kilom			8.5km
3	A letter was post 24 October and on on 4 November. was it in the post of posting.	delivered For how	in Britain many days	12 days
4	Three sweets cost cost of seven swe		nd the	63p
5	Write each of the that the value of 6 hundredths.			
	a 306			a 3.06
	b 463			b 0.463
	c 2586			c 25.86
6	ABCD is a paralle is 55°. What is th		and ∠ ABC	
	A	В	∠ ADC	55°
	55°	/	∠ DAB	125°
	D C		∠ BCD?	125°
7	A rectangular fie 800m of fencing How long is the	to enclo		ed250m
8	A 5p coin weighs many grams is th of 5ps greater th	ie mass c		75g
9	SALE Camera	Find a	the 10% reduction	a f8.70
	Was £87 Now 10% Off	b the new price.	b £78.30	
10	A rectangular pie length 21cm and diagonally in half the area of each	width 3 and cut	0cm is folde What is	d 315cm²
11		stance be If the ma to 5km,	etween two ip was drawi find the	
12		a 3cm	How many cm cubes are needed	
	800	m	to fill the	240

box?

b If the box were 4cm high, find its

volume in cm<sup>3</sup>.

а

b

240

320cm<sup>3</sup>

A	Answer
1 100 – 28 = 9 ×	8
2 250 000 = million	$\frac{1}{4}$ million
3 $18p + 19p + 23p = f$	£0.60
4 1.2m − 75cm = cm	45cm
5 $450g \times 6 = 1 kg$	2.7kg
6 a 10% of 840 =	a 84
b 30% of 840 =	b 252
7 f3.70 ÷ 8 = ■pr ■p	46pr 2p
8 3min 50s = s	230s
9 $1 - \frac{3}{4} - \frac{1}{8} =$	
10 3.0 × 0.8 =	2.4
11 3.050l + ml = 4l	950ml
12 a 0.55 = \(\bigwident\)	a 55%
$b \frac{1}{25} = 10\%$	b 4%

В		Answer	
1	Which of these numbers are factors of 54?		
	4 5 6 7 8 9	6	9
2	How many 5ps are there in £3.65?	7:	3 5ps
3	What is the average of 200ml, 250ml, 150ml and 120ml?	1	<mark>80</mark> ml
4	Write each of these scores as a percentage.		
	<b>a</b> 5 out of 25	<u>a</u>	20%
	<b>b</b> 16 out of 50	b	32%
5	How many metres are there in 1.65km?	16	550m
6	Increase £50 by 25%.	£62.50	
7	How many hours and minutes from 10:40 a.m. to 12:50 p.m.?	<u>2h 1</u>	0min
8	$\frac{7}{10}$ of 5m = 350cm. Find $\frac{3}{10}$ of 5m.	1!	50cm
9	How many hundredths are there in three point zero four?	304 hund	redths
10	200g cost 38p. Find the cost of $\frac{1}{2}$ kg.		<b>95</b> p
11	635 ÷ 7. Write the answer to the		

In this rightangled triangle, what is the

size in degrees of the angle

marked A?

nearest whole number.

12

150°

C		Answer
1	Find the difference between the sum of 6 and 7 and the product of 6 and 7	7. 29
2	Which of these fractions are equivalent to 30%?	
	$\frac{3}{5}$ 0.03 $\frac{3}{10}$ $\frac{20}{50}$ 0.3	$\frac{3}{10}$ 0.3
3	Caitlin has 25p and Billy has 41p. How much must Billy give to Caitlin so that they have equal amounts?	8p
4	A jug when $\frac{3}{4}$ full holds 720ml. How many millilitres does it hold when it is	
	a $\frac{1}{8}$ full	a 120ml
	b <sup>3</sup> / <sub>8</sub> full?	<u>b</u> 360ml
5	A train journey takes 1h 38min.	
	If the train departs at 11:30 at what time does it arrive?	13:08
6	Oliver faces SW. In which direction is he facing if he turns	
	a 90° clockwise	a NW
	b 45° anticlockwise?	b S
7	a Find the area of one face.	a 64cm <sup>2</sup>
	b Find the area of all the faces of the cube.	<b>b</b> 384cm <sup>2</sup>
8	A customer paid 84p for 300g of grapes. Find the price for $\frac{1}{2}$ kg.	<u>f</u> 1.40
9	Which of the following numbers do not change in value if the zeros are omitted?	
	0.158 0350 0.590 1.506	0.158 0.590
10	The perimeter of a rectangle is 54cm. Its length is 18cm. Find	
	a its width	a 9cm
	b its area.	b 162cm <sup>2</sup>
11	Find the smallest number which must be added to 403 to make it exactly divisible by 8.	5
12	What is the distance in cm from Y to Z?	12cm
	Total John John	20mm

91

60°

Α	Answer
1 Write as a decimal $10 + \frac{8}{100} + \frac{3}{1000}$ .	10.083
2 3.125l = ml	3125ml
3 $\frac{3}{10}$ of £1.80 = $\square$ p	54p
4 10% of twenty thousand =	2000
5 38mm + 26mm + 40mm = ☐ cm	10.4cm
$6  10^2 - 4^3 =$	36
7 0.02 × 5 =	0.1
8 $\frac{1}{2}$ kg = 135g + $\square$ g	365g
9 $\frac{3}{4}h - \frac{2}{3}h = \min$	5min
10 $47p \times 8 = f$	£3.76
11 0.25 + = 0.365	0.115
12 \$35 ÷ 4 =	\$8.75

В	Answer
1 How many hundreds are there in thirty thousand seven hundred?	307
2 100 pencils cost £5.92. Find the cost of 25 pencils.	£1.48
By how many degrees does the temperature rise from –10°C to 4°C?	14°C
Which of these numbers are multiples of both 6 and 8?	
16 24 36 54 72	24 72
5 Find the mean of $2\frac{1}{4}$ , $1\frac{3}{4}$ and $3\frac{1}{2}$ .	<u> 2</u> 1/2
6 By how many grams is 750g less than 1kg 150g?	400g
7 Write 35 eighths as	
a an improper fraction	a 35/8
b a mixed number.	<b>b</b> $4\frac{3}{8}$
8 20% of a sum of money is 49p. Find 100% of the money.	£2.45
9 How many days are there in the seventh month of the year?	31

9	How many days are there in the seventh month of the year?	31
10	Write as a fraction in its simplest form a 15 out of 40 b 28 out of 32	a. $\frac{3}{8}$ b. $\frac{7}{8}$
11	Approximate 17.85l to the nearest $\frac{1}{2}$ l. Find in degrees.	18l
	$ \begin{array}{c cccc} \hline 120^{\circ} & & & & \angle x \\ \hline 70^{\circ} & & 50^{\circ} & x & & \angle y \end{array} $	130° 120°
		:

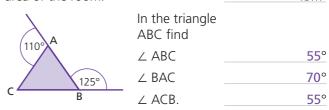
С			Answer	
1	The approximate pois forty thousand m What is the approxi	ore than $\frac{1}{2}$ million		540000
2	Jessica collected 50 She has seventeen 1 some 5ps. How ma	ps, nine 2ps and	)X.	3 5ps
3	480 men, women a to a concert. From t find how many			
	9	a men	a 240	
	Children women	<b>b</b> women	b 180	
	men	c children	c 60	
		were at the concert.		
4	The perimeter of a r	regular octagon		

	is 21.6cm. Find in millimetres		
	a the length of one side	а	<b>27</b> mm
	b the length of a side of a regular hexagon of the same perimeter.	b	<b>36</b> mm
5	The price of a ticket was increased from 50p to 60p. What is the increase	se	1

The price of a ticket was increased		
from 50p to 60p. What is the increase	se	4
a as a fraction in its simplest form	a	
b as a percentage of the		
original price?	b	20%
6 How many packets each containing		

	300g can be made from 2.5kg?		
	How many grams are left?	8 r	<b>100</b> g
7	Write using Roman numerals.		

8	A room is $1\frac{1}{4}$ times as long as it is wide. If the width is 6m find the	
	area of the room	45m



10	Lemonade is made from 3 parts
	water and 2 parts lemon juice.

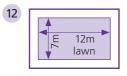
the answer to LXIV  $\times$  IX.

a	What percentage of the	
	mixture is water?	а
h	Find the volume of lemon juice	

b	Find the volume of lemon juice		
	required to make 2l of lemonade.	b	800ml

1)	Science Museum ADMISSION
	£3.40
	half-price entry for children

What is the total admission price for two adults and two children? £10.20



The lawn measures 12m by 7m. The path around it is 1.5m wide. Find the area of the whole garden.\_ 60%

**DLXXVI** 

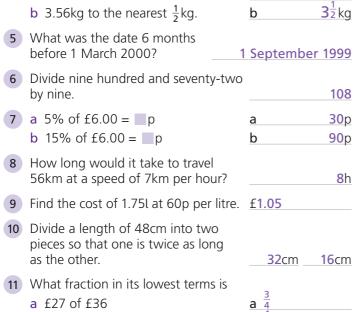
SECTION 3   Test /	
A	Answer
1 Write in digits $\frac{1}{10}$ of 1 million.	100000
2 85g × 100 = kg	<b>8.5</b> kg
3 1.06 – 0.79 =	0.27
4 480mm = m	0.48m
$\frac{5}{6}$ of 30p =	25p
6 905 ÷ 100 =	9.05
7 a 1% of £3.00 = p	a 3p
b 9% of £3.00 = ■p	<b>b</b> 27p
$8 \text{ fo.04} \times 50 =$	£2.00
9 $\frac{3}{4}$ h + 35min = h min	<u>1h 20min</u>
10 2.65l = ml	2650ml
11 $19p + 7p + 5p + 8p = f$	£0.39
$\frac{3}{4} \times 8 =$	6
В	Answer
1) Write as a decimal the sum of 9 tenths and 37 thousandths.	0.937
2 Find the two missing numbers in this sequence.	
70, 7, , , 0.07, .	0.70.007
What is the average of 15cm, $\frac{1}{4}$ m and 17cm?	19cm
4 Increase £7.50 by 10%.	£8.25
5 By how many twelfths is $1\frac{5}{6}$ less than $2\frac{1}{4}$ ?	
6 Write in 24-hour clock times.	
a 18min before noon	a 11:42
b $\frac{1}{2}$ h after 7:57 p.m.	b 20:27
7 Find the difference between $\frac{1}{5}$ of 25 and $\frac{1}{3}$ of 45.	10
8 5% of a sum of money is £0.40. Find the whole amount.	£8.00
9 Approximate	
a 10.25l to the nearest litre	a 10l
b £439.87 to the nearest £.	b £440
10 Find in millimetres the length of a line 15mm shorter than AB.	156mm
17.1cm	B
11) What is the cost of 800g at 90p per kilogram?	
12 The area of a rectangle is $66\frac{1}{2}$ cm <sup>2</sup> .	
The width of the rectangle is 7cm. Find its length.	9 <sup>1</sup> / <sub>2</sub> cm

1	Write in words the number which	Answer	
1	Write in words the number which		
	is equal to		
	$(3 \times 10^3) + (6 \times 10^2)$ . three thous	sand six	hundred
2	There are 60 cards in a packet. There are 12 packets and 17 cards left over. How many cards are there altogether?		737
3	A bill for £4.23 is paid with a £5 note. Name the four coins given as change.		
	50p20p	<b>5</b> p	2p
4	A ABC is an isosceles triangle.		
	Find the angle at B		49°
	and the angle at A.		82°
5	How many years apart are these two years written in Roman numerals?  MCMXLV MCMXXXIX		
	Give your answer in digits.		6
6	A plank of wood 7.5m long is cut into two parts so that one part is four times as long as the other. Find the length of each part.	6m	1.5m
7	Train times  Depart Arrive 10:45 12:35 B 16:18 18:00  Which train, A or B, is the quicker and by how many minutes?	B by	8min
8	The total mass of 12 parcels of equal mass is 5.4kg. Find the mass of		
	<b>a</b> four parcels in kilograms and grams	a 1kg	<b>800</b> g
	b one parcel in grams.	<u>b</u>	<b>450</b> g
9	The rectangle X has two axes of symmetry. How many axes of symmetry has a rhombus Y	a 2	
	b the equilateral triangle Z?	b 3	
	X Y Z		
10	The circumference of a wheel is 45cm. How many times will it turn in going 450m?		1000
11	By how much is it cheaper to pay for a coat priced at £25 with a discount of 10%, than with a discount of 8p per £1?		50p
12	The radius of this circle is 0.9 cm. Find the length of the line XY in mm.		18mm

#### SECTION 3 | Test 8

А	Answer	
1 Write in digits 1.1 million.	1	100000
2 £0.81 = two 20ps + three 10ps + p		<b>11</b> p
3 8.07 × 6 =		48.42
4 1.8km + 450m = ■km ■m	2km	<b>250</b> m
5 50% of 1.9kg = <b>■</b> g		<b>950</b> g
6 275 ÷ 7 = <b>1</b> r	39 r	2
$7   10^3 - 10^2 =$		900
8 a $\frac{3}{5} = 3\%$	a	60%
$b \frac{9}{10} = 10\%$	b	90%
9 $f10 - (2 \times 46p) = f$	£9.08	
10 $1\frac{3}{10} + \frac{2}{3} + \frac{7}{10} =$		$2\frac{2}{3}$
11 1.5l – ml = 600ml		900ml
12 f0.17 × 8 =	£1.36	
В	Answer	

В		Answer	
1	Find in degrees the reflex angle to a 85° b 148°.	<u>a</u> b	275° 212°
2	How many 50g cans have a total mass of 2kg?		40
3	Decrease £3.50 by 4%.	£3.36	
4	Approximate a 9l 870ml to the nearest litre b 3.56kg to the nearest $\frac{1}{2}$ kg.	a b	10l 3½kg
5	What was the date 6 months before 1 March 2000?	Septembe	<sup>-</sup> 1999
6	Divide nine hundred and seventy-two by nine.		108



C		Answer	
1	There were 3500 spectators at a football match. 30% were women. How many women were there?		1050
2	A bottle holds 300ml. Find in litres the contents of 12 bottles.		3.6l
3	In the diagram there are 100 small squares. Find as a fraction in its simplest form the part which is a patterned b unshaded c shaded.	a 1/4 b 3/5 c 20	
4	$3.75 \times 8 = 30$ . Write the answers to		
	a 375 × 8	a 3000	
	b 3.75 × 80.	b 300	
5	A holiday started on 25 August and ended on 7 September. For how many days did the holiday last?		14
6	What fraction in its simplest form is equivalent to		
	a 0.6	a 3/5	
	b 0.16?	$b \frac{4}{25}$	
7	The mean mass of three parcels is 6kg. Two of the parcels have a mass of 4.6kg and 6kg. Find the mass of the third parcel.		<b>7.4</b> kg
8	A sheet of		
	plywood 26cm by 8cm is cut int		
	26cm by 8cm is cut int strips 2cm wide.	.0	
	Find the total length of the strips.		<u>104cm</u>
9	1ml or 1cm³ of water has a mass of 1g Find the mass of water in kilograms		
	a in a can which holds $1\frac{3}{4}$ l	<u>a</u>	<b>1.75</b> kg
	b in a tank the volume of which is 6400cm <sup>3</sup> .	h	6 Aka
		b	<b>6.4</b> kg
10	Seven buns cost £2.47. Find to the nearest penny the cost of one.		<b>35</b> p
11	The circumference of the wheel is 1.5n	 ∩.	<u> </u>
	How many metres will		
	the wheel travel in		
	a 10 turns	<u>a</u>	15m

**b** 100 turns?

increased from 30p to 36p. Find the

increase as a fraction in its simplest

form of the original price.

**150**m

**b** £2.50 of £20?

Find the area of the smallest square into which the circle can be fitted.

12 The price of  $\frac{1}{2}$ kg of potatoes was 49cm<sup>2</sup>

A	Answer	
		305
$1  5.305 = 5 + \frac{1}{1000}$		305 1000
2 10% of sixteen thousand =		1600
3 4.375kg = ■g		<b>4375</b> g
4 $f2 - (27p + 65p) = f$	£1.08	
5 2l 450ml − 0.5l = ■ml		1950ml
6 0.4 + = 0.476		0.076
7 f1.76 × 5 =	£8.80	
8 $0.75$ km = $m + 325$ m		425m
9 $\frac{x}{100}$ = 13.07 Find $x$ .		1307 100
10 38min + 2h + 47min = h min	3h	25min
11 a 10% of £20.40 =	a £2.04	
b $2\frac{1}{2}$ % of £20.40 =	b f0.51	
12 $\frac{1}{6}$ of 45cm = mm		<b>75</b> mm
В	Answer	
1 Which of these numbers are factors o	f 75?	
5 6 3 7 9	3	5
2 Find the mean of 3, 1.4, 2 and 2.6.		2.25
3 Write a $\frac{47}{8}$ as a mixed number	a 5 <sup>7</sup> / <sub>8</sub>	
b $5\frac{5}{6}$ as an improper fraction.	35	
4 What is the cost of 400g at £1.50		
per $\frac{1}{2}$ kg?	£1.20	
By how many is $450 \times 1000$ less than $\frac{1}{2}$ million?		50000
6 By how many degrees does the		4206
temperature fall from 8°C to –5°C?		<u>13°C</u>
7 25% of Max's money is £35. Find the whole amount.	<u>£140</u>	
8 Approximate to the nearest whole number.		
a 79.63	a 80	
b 12.475	b 12	
9 By how many millimetres is 95.4cm less than 1m?		46mm
10 Find the least number of pennies which must be added to 92p to make the amount exactly divisible by 6.		4
11 What percentage of 2l is		
a 400ml	<u>a</u>	20%
b 100ml?	b	5%
Find the volume of		

the box

in cm<sup>3</sup>.

	Schofield & Sims
С	Answer
1 By how many thousandths is 1.057 less than 2?	943 thousandths
By how many degrees is the reflex angle at O greater than the obtuse angle at O?	100°
3 Ellie spends $\frac{1}{2}$ of her money on bus fares and $\frac{5}{12}$ on sweets. What fraction of her money is left?	
A cyclist travelled at 24 km/h for $\frac{1}{4}$ hour. How far did she travel?	6km
Read as accurately as possible the mass shown by the pointer.  Write the answer in grams.	5650g
6 The population of Town A is a quarter of a million. The population of Town B is fifty thousand less than Town A. What is the population of Town B?	
7 How much change is there out of £15 after spending £9.50 and £3.20?	£2.30
<ul><li>Write these decimals in ascending order.</li><li>5.03 0.35 0.5 3.05 3.5</li></ul>	

- 9 A bus runs at intervals of 25 min. What are the times of the next two buses after 08:15? 08:40 09:05
- By how much 10 Buy today for £60 is it cheaper or pay 10% weekly to pay today? £12 for 12 weeks
- 11 A rectangular path is 9m long and 80cm wide. Find its area in m<sup>2</sup>. **7.2**m<sup>2</sup>
- 12 Ravi is given £85 as birthday gifts. He spends 30% and saves the remainder. a What percentage does he save?
  - b How much money does he spend? b £25.50

70%

**240**cm<sup>3</sup>

# SECTION 3 | Test 10

A		Answer
1	Write in digits six hundred and two thousand five hundred and eight.	602 508
2	f0.27 × 40 =	£10.80
3	$\frac{2}{3}$ of 960 =	640
4	a 1% of £17 = <b>■</b> p	<b>a</b> 17p
	b 7% of £17 = £	b £1.19
5	10.06 =  thousandths	10060 thousandths
6	f2.30 = three 50ps + two 20ps + 10ps	<b>4</b> 10ps
7	$3\frac{3}{4} \times 4 =$	15
8	180° – (72° + 36°) =	72°
9	300g + 450g + 350g = ■kg	1.1kg
10	2h 15min – 50min = ■h ■min	<u>1h 25min</u>
11	27cm × 7 =mcm	<u>1m 89cm</u>
12	$\frac{£16.56}{8} =$	£2.07
		•
В		Answer
1	By how many is 0.3 million less than $\frac{1}{2}$ million?	200000
2	What length in metres is 6 times 7m 30cm?	43.8m
3	How many times is $2\frac{1}{2}$ contained in 50?	20
4	Find the total of 17p, 53p, 24p and 7p Write the answer in £s.	£1.01
5	Write the 24-hour clock time which is 7h before 4:35 a.m.	21:35
6	What fraction in its simplest form is equal to	
	a 8%	$a^{\frac{2}{25}}$
	b 35%?	<b>b</b> $\frac{7}{20}$
7	By what quantity is 920ml less than 1.2l?	280ml
8	Increase £30.50 by 10%.	£33.55
9	If the distance from A to D is 14km, find the distance from B to C.	<b>7.05</b> km
	A 4.7km B □	2.25km
10	Find the cost of 0.3m at £4.80 per metre.	<u>£</u> 1.44
	The perimeter of a rectangle is 65cm.	
11	Its length is 24cm. Find its width.	<b>8.5</b> cm
12		8.5cm

C		Answer	
1	How many envelopes costing 3p		
	each can be bought for £2.40?		80
2	ABCD is a parallelogram. Find in degree	ees	
	A BAD a ∠ BAD	a	140°
	b ∠ ABC.	b	40°
3	Share £5 between Henry and Amy so that Henry has 6p each time Amy has 4p. How much does each have? Henry	<u>f3</u>	
	Amy	<u>£2</u>	
4	A man walked steadily at 4km/h from 11:00 a.m. to 2:30 p.m. How far did he walk?		14km
5	From the largest of these decimal fractions take the smallest.		
	0.33 0.3 0.03 0.333		0.303
6	1cm <sup>3</sup> or 1ml of water has a mass of 1g A jar holds $3\frac{1}{2}$ l of water. Find		
	a the volume of water in cm <sup>3</sup>	a	3500cm <sup>3</sup>
	<b>b</b> the mass of the water in kg.	b	3.5kg
7	How much is saved by buying 15kg at 16p per kilogram, instead of the same mass at 9p per $\frac{1}{2}$ kg?		30p
8	Date of birth Find the		
	Riaz 1.3.96 age on 1 September		
	Sophie 1.10.94 2010 in years		
	and months o		
		I4yr	6mth
		15yr	11mth
9	The area of a hall is 60m <sup>2</sup> . Its length is 8m. Find		
	a its width	a 7.5m	
	b its perimeter.	b 31m	
10	a What fraction of the circumference		
	of the circle is the arc AB?	a	<u>1</u> 3
	b If the circumference measures 188.4cm, find in millimetres the length of the arc.	b	628mm
11	Cheese costs £2.60 per $\frac{1}{2}$ kg. Find the mass in kilograms and grams of cheese which costs £7.80.	1kg	500g
12	Box A measures 8cm long, 9cm wide, 4cm high. Box B measures 10cm long, $5\frac{1}{2}$ cm wide, 6cm high. Find the difference in their volumes.		42cm <sup>3</sup>

SECTION 3   Test 11	
A	Answer
1 10 × 10 × 10 × 10 × 10 =	100000
2 $67p \times 6 = f$	£4.02
3 (49 + 8) = 100 -	43
4 90% of £300 =	£270
5 5l ÷ 8 = ml	625ml
$6  10 - 7\frac{3}{10} =$	$2\frac{7}{10}$
7 $0.246 = 2$ tenths + $\blacksquare$ thousandths	46 thousandths
8 a $\frac{3}{25} = 10\%$	a 12%
b 0.07 = \(\bigcup_{\circ}\)%	b 7%
9 $1.25$ kg $-600$ g = $\Box$ g	650g
nine 5ps + three 2ps + three 20ps = f	£1.11
11 $\frac{3}{4}$ of 3.6cm = $\boxed{}$ mm	27mm
12 2h 49min + 53min = 1 h 1 min	3h 42min
12 211 49111111 + 33111111 - 111 1111111	<u> </u>
В	Answer
1 By how many is 90 200 less than	
one hundred thousand?	9800
2 Find the total number of days in	
February, March and April in	00 days
a leap year.	90 days
degrees in	
B the reflex	
angle AOB?	288°
4 Find the cost of 90cm of cloth	£2 22
at £3.70 per metre.	£3.33
5 How many times is 400g contained in 2.4kg?	6
6 Of these numbers which is	
the smallest?	
1.11 1.01 1.111 1.1	1.01
	1.01
7 What is the difference in millilitres between 2.8l and 3.7l?	900ml
8 Write as a fraction in its lowest terms	
a £4.50 of £18	a $\frac{1}{4}$
b 5min of 1h	$\frac{a}{b}$
9 A strip of plastic 4m 200mm long is	12
cut into seven equal pieces. Find in	
millimetres the length of each piece.	600mm
10 Approximate	
a £29.50 to the nearest £	a £30
b $\frac{99}{2}$ p to the nearest 1p.	b 50p
9 3 p Find the sum of money	
5) fx which was divided by 5	
12 The diameters of two circles are 9.4cm and 15.8cm. What is the radius of	m
each circle in millimetres?	47mm 79mm

		<u> </u>	a & Sims
C		Answer	
1	Which numbers below 50 have both 2 and 7 as factors?14	1 28	42
2	What is the date of the third Wednesday in July if 1 July is a Sunday?		18 July
3	The men	thly	
	40mm 23mm 42mm 35mm given in		
	millimetres. Find the mean rainfall for all four months.		35mm
4	60kg of mortar is mixed from 4 parts		3311111
7	of sand and 1 part of cement.		
	Find the mass used of <b>a</b> sand	<u>a</u>	<b>48</b> kg
	b cement.	b	<b>12</b> kg
5	Write this number in words.		
	$(7 \times 10^3) + (1 \times 10^2) + (9 \times 10)$	ninatu	
-	seven thousand one hundred and	ninety	
6	How many degrees are there in a turn from W to SE		
	a clockwise	а	225
	b anticlockwise.	b	135
	Circle A is 9.4cm The diameter of circle B is 5.8cm	f	
	How far apart are the two centre points in millimetres?		<b>76</b> mm
8	a Find the area of a square with 5cm sides.	a 25cm <sup>2</sup>	
	b How many times greater is the area of a square with sides double that length?	b 4	
9	How much money		
	Stickers is saved by buying 7p each 34 stickers in groups		
	or 6 for 40p 24 stickers in groups of six?		<b>8</b> p
0	A 135° B AB and CD are parallel lines. Fin	d	
	c D a angle x	a	135
	b angle y.	b	45
1	Grace won a prize of £800 which she deposited in a bank at an interest rate of 5%. How much interest did		
	she receive at the end of 1 year?	£40	
12	a How many cr cubes can be fitted into the bottom of		

the box?

b If the volume of the box is 240cm³, find its height.

a 60

4cm

b

## SECTION 3 | Test 12

Α	Answer
1 55 + 17 = <b>x</b> 9	8
2 f0.95 = 50p + 20p + 5ps	<b>5</b> 5ps
3 2.3m − 90cm = cm	140cm
4 1000000 = thousands	1000 Th
= hundreds	10 000 H
5 380g × 9 = ■kg	3.42kg
6 $7 \times y = 7532$ . Find y.	1076
7 a 10% of £27 = £	a £2.70
b 1% of £27 = <b>□</b> p	b 27p
$8  \frac{1}{2} + \frac{3}{8} + \frac{3}{4} =$	1 <sup>5</sup> 8
9 2.05l + $ml = 2\frac{1}{2}l$	450ml
10 360° – (75° + 80° + 130°) =	75°
11) $\frac{5}{6}$ of £90 =	£75
12 4.07 × 8 =	32.56

2 4.07 × 8 =	32.56
В	Answer
Which of the numbers are r of 4, 6 and 9?	multiples
24 36 54 60 72	3672
How many kilometres are th seventeen hundred metres?	
Decrease €44 by 10%.	€39.60
How many hours and minut from 09:48 to 11:19?	tes <u>1h 31min</u>
What fraction in its simplifie	ed form is
a the part	patterned <u>a <sup>2</sup> 3</u>
b the s	1
c the upart?	unshaded $\frac{1}{2}$ $\frac{1}{2}$
Find the cost of 2.25l at 28p	o per litre. 63p
How many biscuits each cos are bought for £2.73?	sting 7p
Write each score as a percer	ntage.
a 18 out of 20	<u>a 90%</u>
<b>b</b> 35 out of 35	b 100%
Five oranges cost 80p. Wha	at fraction

of 80p will three oranges cost?

11 Find  $\frac{1}{5}$  of £1.68 to the nearest penny.

By how many is 300 050 greater than  $\frac{1}{4}$  million?

12 Find in cm<sup>3</sup> the volume of a box 15cm by 10cm by 7cm.

	3EC1	IOI		10.		
C			Ansv	ver		
1	Find the missing numbers in this sequence.					
	0.125, 0.25, 0.375, ,			0.5	0.6	525
2	What number when added to 48 three times gives a total of	120?				24
3	A fruit cake has a mass of 1.5k If 40% of the mass is fruit, fin mass of the fruit in grams.	_			60	00g
4	A line 8cm long is drawn to the 1mm to 0.1m. What length do line represent?					<u>8m</u>
5	Which of these fractions is less $\frac{1}{3}$ $\frac{3}{10}$ $\frac{2}{5}$ $\frac{1}{6}$ $\frac{3}{8}$	s than $\frac{1}{4}$	?			<u>1</u> 6
6	A snow removal vehicle spread grit at the rate of 125g per 1m How many kilograms are requ to grit a path 50m <sup>2</sup> ?	<sup>2</sup> .			6.25	kg
7	How far will a cyclist travel in if he cycles at 18 kilometres pe				<b>4</b> <sup>1</sup> / <sub>2</sub>	<u>km</u>
8	The length of a rectangle is the times its width. If the perimeter 192cm find					
	a the length		a		72	cm
	<b>b</b> the width of the rectangle.		b		24	cm
9	O is the cer of the circle the radius of which is 7.4 Find  A  B  a the angle	e of Icm.				
	centre A		a		6	50°
	<b>b</b> the length of the straight lin	ne AB.	b		7.4	cm
10	Of 150 children in a school 60 swim one width of the pool a 45 can swim one length of the What percentage of the children can swim	nd e pool.				
	a the width		а		40	)%
	b the length?		b		30	)%
11	Seven children shared a mone equally. Each child received £4 and there was £6 left. Find the total value of the prize.	2	<u>£300</u>	)		
12	The show block gold Find volume	c of its		3	300c	:m³

50050

**1050**cm<sup>3</sup>

**34**p

		e de la companya de					
A 5 + 6 =	11	10 × 10 =	100	$(6 \times 6) + 5 =$	41	27 × 8 =	216
8 + 8 =	16	4 × 7 =	28	$(9 \times 1) + 7 =$	16	49 × 6 =	294
0 + 7 =	7	9 × 3 =	27	$(5 \times 8) + 4 =$	44	107 × 7 =	749
7 + 8 =	15	8 × 6 =	48	$(8 \times 0) + 6 =$	6	93 × 10 =	930
4 + 7 =	11	1 × 8 =	8	$(10 \times 5) + 8 =$	58	180 × 10 =	1800
18 + 9 =	27	5 × 9 =	45	$(8 \times 8) + 6 =$	70	95 × 20 =	1900
15 + 8 =	23	7 × 7 =	49	$(3 \times 3) + 2 =$	11	86 × 40 =	_3440
3 + 29 =	32	0 × 0 =	0	$(9 \times 8) + 7 =$	79	100 × 80 =	8000
7 + 36 =	43	4 × 8 =	32	$(4 \times 9) + 5 =$	41	98 × 100 =	9800
14 + 19 =	33	9 × 7 =	63	$(7 \times 6) + 3 =$	45	204 × 100 =	20400
12 - 5 =	7	24 ÷ 3 =	8	29÷3=	9 r 2	102 ÷ 3 =	34
9 - 0 =	9	40 ÷ 8 =	5	67÷8=	8 r 3	336 ÷ 4 =	84
11 - 3 =	8	0 ÷ 6 =	0	21 ÷ 4 =	5 r 1	648 ÷ 6 =	_108
14 - 5 =	9	54 ÷ 9 =	6	6 ÷ 7 =	0 r 6	590 ÷ 10 =	59
15 - 9 =	6	7 ÷ 7 =	1	39÷5=	7 r 4	800 ÷ 10 =	80
24 - 6 =	18	42 ÷ 7 =	6	70 ÷ 9 =	7 r 7	540 ÷ 20 =	27
26 - 9 =	17	81 ÷ 9 =	9	51 ÷ 6 =	8 r 3	420 ÷ 60 =	7
32 - 8 =	24	36 ÷ 4 =	9	13 ÷ 7 =	1 r 6	1050 ÷ 50 =	21
58- 9=	49	63 ÷ 9 =	7	52 ÷ 5 =	10 r 2	4000 ÷ 100 =	40
47 - 20 =	27	56 ÷ 8 =	7	4 ÷ 9 =	0 r 4	2900 ÷ 100 =	29

В	Write these numbers.	
	Fifty thousand and seven	50007
	Sixty-two thousand four hundred and two	62402
	One hundred and forty thousand and eleven	140 011
	Two hundred and six thousand and nine	206009
	30000 + 400 + 6 =	30406
	100000 + 7000 + 50 + 8 =	107 058
	$(4 \times 1000) + (6 \times 100) + (3 \times 10) + 8 =$	4638
	$(9 \times 1000) + (7 \times 10) + 5 =$	9075
	$(3 \times 1000) + (4 \times 10) =$	3040
	1 million	1000000
	$1\frac{1}{2}$ million	1500000
	<sup>1</sup> / <sub>4</sub> million	250000
	2.7 million	2700000

C	Write as decimals.	
	47 tenths	4.7
	201 tenths	20.1
	4 hundredths	0.04
	309 hundredths	3.09
	580 hundredths	5.8
	603 thousandths	0.603
	75 thousandths	0.075
	3009 thousandths	3.009
	$9 + \frac{3}{10} + \frac{8}{100} =$	9.38
	$10 + \frac{7}{100} + \frac{2}{1000} =$	10.072
	5 tenths + 2 hundredths =	0.52
	17 hundredths and 6 thousandths =	0.176

ļ	2900 ÷ 100 =	29
	How many tenths equ	ıal
	6.8	68
	14.9	149
	30.4?	304
	How many hundredths equal	
	0.93	93
	7.05	705
	3.2?	320
	How many thousandths equal	
	0.003	3
	0.078	78
	1.52	1520
	2.8	2800
	4.09?	4090

D 5.03 + 0.7 = 1	5.73
2.5 + 1.54 =	4.04
0.06 + 1.04 = 1	1.1
3.7 + 0.35 = 1	4.05
0.28 + 1.625 =	1.905
2 - 1.4 =	0.6
1.4 - 0.9 =	0.5
10 - 8.75 =	1.25
4.8 - 3.76 =	1.04
0.7 - 0.58 =	0.12

$$6.45 \times 10 =$$
 $0.873 \times 10 =$ 
 $2.03 \times 100 =$ 
 $0.092 \times 100 =$ 
 $0.053 \times 1000 =$ 
 $1.8 \times 5 =$ 
 $4 \times 1.63 =$ 
 $0.092 \times 8 =$ 
 $0.72$ 
 $0.093 \times 6 =$ 
 $0.063 \times 6 =$ 
 $0.0873 \times 1000 =$ 
 $0.093 \times 1000 =$ 
 $0.093$ 

E	Find the value o	f <i>x</i> .
	x + 7 = 24	17
	5 + x = 32	27
	x + 1.5 = 5	3.5
	31 - x = 16	15
	x - 6.3 = 10	16.3
	$10 \times x = 25$	2.5
	$x \times 4 = 18$	4.5
	$7 = \frac{x}{5}$	35
	$\frac{x}{10} = 0.6$	6
	$9 + x = 7 \times 7$	40



A Fill in the missing numerator or denominator.

$$\frac{3}{4} = \frac{12}{16}$$

$$\frac{2}{3} = \frac{8}{12}$$
  $\frac{7}{8} = \frac{21}{24}$ 

$$\frac{7}{8} = \frac{21}{24}$$

$$\frac{5}{6} = \frac{15}{18}$$

$$\frac{4}{5} = \frac{40}{50}$$

$$\frac{3}{10} = \frac{30}{100}$$

Write each fraction in its simplest form.

$$\frac{9}{12} = \frac{3}{4}$$

$$\frac{12}{18} = \frac{2}{3}$$

$$\frac{9}{12} = \frac{3}{4}$$
  $\frac{12}{18} = \frac{2}{3}$   $\frac{20}{25} = \frac{4}{5}$ 

$$\frac{24}{30} = \frac{4}{5}$$
  $\frac{70}{100} = \frac{7}{10}$ 

$$\frac{70}{100} = \frac{7}{10}$$

$$\frac{45}{100} = \frac{9}{20}$$

Change each improper fraction to a mixed number.

$$\frac{19}{4} = 4\frac{3}{4}$$

$$\frac{31}{5} = 6\frac{1}{5}$$

$$\frac{43}{9} = 5\frac{3}{8}$$

$$\frac{29}{6} = 4\frac{5}{6}$$

$$\frac{77}{10} = 7\frac{7}{10}$$

$$\frac{40}{3} = 13\frac{1}{3}$$

Change each mixed number to an improper fraction.

$$7\frac{3}{4} = \frac{31}{4}$$

$$7\frac{3}{4} = \frac{31}{4}$$
  $8\frac{2}{3} = \frac{26}{3}$   $5\frac{4}{5} = \frac{29}{5}$ 

$$5\frac{4}{5} = \frac{29}{5}$$

$$9\frac{7}{10} = \frac{97}{10}$$

$$4\frac{7}{8} = \frac{39}{8}$$

$$4\frac{7}{8} = \frac{39}{8}$$
  $10\frac{5}{6} = \frac{65}{6}$ 

Write as a fraction in its simplest form

Write as a fraction in its simple	_
50 of 75	2
30p of £1.00	$     \begin{array}{r}       \frac{2}{3} \\       \hline       3 \\       \hline       10     \end{array} $
25cm of 1m	$ \begin{array}{r} \frac{1}{4} \\ \frac{2}{5} \\ \frac{7}{10} \\ \frac{4}{5} \\ \frac{1}{5} \\ \frac{9}{20} \end{array} $
12kg of 30kg	
70 of 100	
800g of 1kg	
400ml of 2l	
45 of 100	

Find	
$\frac{3}{5}$ of 70 $\frac{5}{8}$ of 64	42
$\frac{5}{8}$ of 64	40
$\frac{7}{10}$ of £1.20	<b>84</b> p
$\frac{5}{6}$ of 42l	35l
4/7 of 350g	<b>200</b> g
$\frac{13}{100}$ of £1.00	<b>13</b> p
$\frac{2}{3}$ of 1200	800
35 100 of 1kg.	<u>350g</u>

Find the whole when

$\frac{1}{6}$ is 35	210
$\frac{3}{4}$ is 27p	36p
$\frac{4}{5}$ is 36cm	45cm
$\frac{7}{10}$ is £1.40	£2.00
$\frac{2}{3}$ is 800g	1200g
$\frac{5}{9}$ is 5000	9000
$\frac{3}{8}$ is 24l	64l
$\frac{9}{20}$ is £1.80	<u>£4.00</u>

Write as percentages.

a	33 out of 100	33%

$$b \frac{56}{100}$$

$$\frac{56\%}{}$$
 c  $\frac{1}{100}$ 

$$c \frac{1}{100}$$

Change each fraction first to hundredths, then write it as a percentage.

$$a \frac{19}{50} = \frac{38}{100} = 38\%$$

$$a \frac{19}{50} = \frac{38}{100} = \frac{38\%}{100} = \frac{12}{100} = \frac{12\%}{100} = \frac{65}{100} = \frac{65}{100} = \frac{65}{100}$$

$$c_{\frac{13}{20}} = \frac{65}{100} = \frac{65\%}{100}$$

$$a \frac{3}{4} = \frac{75}{100} = \frac{75\%}{100} = \frac{80}{100} = \frac{80\%}{100} = \frac{70}{100} = \frac{$$

$$b \frac{4}{5} = \frac{80}{100} = \frac{80\%}{100}$$

$$c_{\frac{7}{10}} = \frac{70}{100} = \frac{70\%}{100}$$

Fill the blank spaces in each of the columns. The first is done for you.

	a	b	C	d	е	f	g	h	i	j	k	I	m
Fraction in its simplest form	1/2	1/4	3 4	<u>1</u> 5	<u>2</u> 5	<u>3</u> 5	<u>4</u> 5	10	<u>3</u> 10	7 10	9 10	<u>1</u> 20	1 100
Decimal fraction	0.5	0.25	0.75	0.2	0.4	0.6	0.8	0.1	0.3	0.7	0.9	0.05	0.01
Percentage	50%	25%	75%	20%	40%	60%	80%	10%	30%	70%	90%	5%	1%

B

Find the value of	
25% of 120	30
50% of 35	$17\frac{1}{2}$
75% of 400	300
10% of 1000	100
30% of 90	27
70% of 200	140
90% of 160	144
20% of 95p	<b>19</b> p
40% of £20	<u>£8.00</u>
60% of £15.	£9.00

Find the value of

rind the value of	
50% of 14p	<b>7</b> p
20% of £6.50	£1.30
100% of 93p	93p
10% of 2.5kg	250g
5% of 4l	200ml
30% of 2m	60cm
1% of £1.00	1p
7% of £1.00	<b>7</b> p
3% of £3.00	9p
12% of £9.00.	<u>£1.08</u>

Find as a percentage

,	rina as a percentage	
	6 of 24	25%
	$7\frac{1}{2}$ of 15	50%
	40p of 50p	80%
	93p of 93p	100%
	200g of $\frac{1}{2}$ kg	40%
	700ml of 1l	70%
	25p of £2.50	10%
	£1.50 of £2.00	75%
	7p of £1.00	7%
	30cm of 1.5m.	20%

A	70p =	£0.70
	2p =	£0.02
	f0.63 =	63p
	£0.19 =	19p
	£0.04 =	4p
	£1.37 =	<b>13</b> 10ps <b>7</b> p
	£3.09 =	<b>15</b> 20ps <b>9</b> p
	f10.80 =	108 10ps 0p
	seven 10ps + six 2ps =	<b>82</b> p
	three 50ps + nine 10ps =	£2.40
	three $10ps + five 5ps + 9p =$	6 <b>4</b> p
	£0.85 = five 10ps + 5ps =	<b>7</b> 5ps
	£1.20 = twelve 5ps + 20ps =	3 20ps
	£2.30 = three 50ps + 20ps =	4 20ps

В	9p + 3p + 17p =	<b>29</b> p
	15p + 8p + 6p =	<b>29</b> p
	14p + 7p + 12p =	<b>33</b> p
	5p + 11p + 15p + 4p =	<b>35</b> p
	6p + 19p + 21p + 18p =	<b>64</b> p
	37p + 85p =	£1.22
	£1.03 + 49p =	£1.52
	£2.57 + £0.60 =	£3.17
	43p – 19p =	24p
	95p – 18p =	<b>77</b> p
	f1.10 - 84p =	<b>26</b> p
	£1.70 – 93p =	<b>77</b> p
	f2.30 - f0.80 =	£1.50
	£2.06 - £1.40 =	<b>66</b> p

C	Find the cost of	
	10 at 15p each	£1.50
	100 at 3p each	£3.00
	9 at 13p each	£1.17
	8 at 27p each	£2.16
	5 at 45p each	£2.25
	19 at 4p each	<b>76</b> p
	27 at 7p each.	£1.89
	Find the cost of	1 when
	10 cost £2.70	<b>27</b> p
	100 cost £15	<b>15</b> p
	6 cost 84p	<b>14</b> p
	4 cost £0.72	<b>18</b> p
	7 cost £2.24	<b>32</b> p
	9 cost £3.06.	<b>34</b> p

**D** Find the change from 20p after spending **a** 3p **17**p **b** 8p **12**p 20p after spending **a** 12p **8**p **b** 14p **6**p 50p after spending **a** 37p **13**p **b** 19p **31**p c 26p **24**p **d** 5p **45**p £1 after spending a 81p **19**p **b** 66p **34**p c 45p **55**p **d** 7p **93**p £5 after spending a 73p £4.27 **b** £4.09 **91**p c f2.54 f2.46 d f1.98 f3.02

**Amount** 50p 20p 10p 2p 1p 1 1 1 23p 1 2 39p 1 1 1 1 1 67p 1 78p 1 1 1 1 1 1 1 1 86p 1 1 1 2 2 94p

Make up the given amounts using the least number

of coins. The first one is done for you.

84cm = 0.84m 309cm =3.09m 1075mm = 1.075m 2305mm = 2.305m 750mm =**0.75**m 100m =**0.1**km 925m =0.925km 1605m =1.605km 860g =0.860kg 1400g =**1.4**kg 700ml =0.7l 3310ml =3.31l

**G** 20.4cm = **204**mm 1.5m =1500mm 2.65m =2650mm 0.85m =**85**cm 8.37km =8370m 0.6km =600m 10.075km =10075m 1.325 kg =1325q 0.05 kg =**50**q 3.72kg =**3720**g 1.3l =1300ml 4.25l =4250ml

**H** Find the cost of 500g at 76p per kg **38**p 100g at 50p per kg **5**p 250g at 36p per kg **9**p 200g at £1.20 per kg **24**p 1.5kg at 64p per kg **96**p 100g at 45p per  $\frac{1}{2}$ kg **9**p 300g at £1.10 per  $\frac{1}{2}$ kg **66**p 25cm at 92p per m **23**p 10cm at £3.50 per m **35**p 60cm at £2.20 per m £1.32 1.3l at 60p per l **78**p 800ml at 50p per l **40**p

How many min in  $\frac{3}{4}$ h 45min min in  $1\frac{1}{4}$ h **75**min seconds in 5min 300s weeks in 1 year 52wk **365**d days in 1 year days in April **30**d days in July **31**d days in October? **31**d

 J Change to 24-hour clock times.

 7:35 a.m.
 07:35

 12:05 p.m.
 12:05

 3:27 p.m.
 15:27

 10:55 p.m.
 22:55

 Change to 12-hour clock times.
 Use a.m. or p.m.

 09:20
 9:20 a.m.

 Use a.m. or p.m.

 09:20
 9:20 a.m.

 14:56
 2:56 p.m.

 00:35
 12:35 a.m.

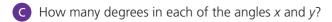
 21:16
 9:16 p.m.

Find the period of time between 8:35 a.m. and 10:16 a.m. 1h 41min 5:25 a.m. and noon 6h 35min 4:30 p.m. and 7:20 p.m. 2h 50min 11:35 and 14:15 2h 40min 03:40 and 06:10. 2h 30min How many days inclusive from 28 Jan to 9 Feb **13** d from 17 May to 5 June **20** d from 26 Nov to 3 Jan? 39 d

# **CHECK-UP TEST** | Measurement and geometry

A	Approximate to the nearest			
	whole number	49.55	50	
	whole number	$20\frac{2}{5}$	20	
	hundred	6057	6100	
	hundred	19 503	19500	
	thousand	59770	60000	
	thousand	109 495	109000	
	£1.00	£27.50	<u>£28</u>	

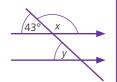
Approximate to the	ne nearest		
metre	8m 59cm	1	9m
metre	19m 700	mm	20m
kilogram	16kg 50g	J	16kg
kilogram	7.55kg		<b>8</b> kg
$\frac{1}{2}$ kg	9kg 800g	9	10kg
$\frac{1}{2}$ kg	6.55kg		6.5kg
litre	39.87l		40l
b $\frac{1}{2}$ of £2.50	<b>83</b> p	c £3.35	<b>84</b> p





Find to the nearest penny.





**10**p

283° angle x

135° angle x 45° angle y

137° angle x 43° angle y

D Find the missing angle in each of the triangles. Then name each triangle according to **a** the angles **b** the sides.

Angles in triangle			<b>a</b> Name of triangle (angles)	<b>b</b> Name of triangle (sides)
32°	58°	90°	right-angled	scalene
46°	52°	82°	acute-angled	scalene
60°	60°	60°	acute-angled	equilateral
17°	125°	38°	obtuse-angled	scalene
57°	57°	66°	acute-angled	isosceles





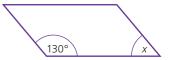




 $a \frac{1}{10}$  of 97p







Find the angle x in

a the rhombus c the parallelogram

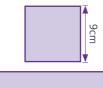
50°

**b** the trapezium

132°

125°

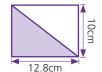
Give the unit of measurement in the answer for each example.



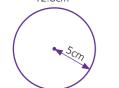
perimeter of square 36cm area of square 81cm<sup>2</sup>

8.3m

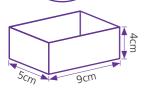
perimeter of rectangle \_\_\_20.6cm area of rectangle 16.6cm<sup>2</sup>



area of triangle 64cm<sup>2</sup>



diameter of circle 10cm



How many cm cubes

a fit into the bottom of the box

**b** fill the box?

60°

d the irregular quadrilateral

Write the missing measurement in each of the rectangles.

Area	50m <sup>2</sup>	121.5cm <sup>2</sup>	25cm <sup>2</sup>	16m²
Length	5m	13.5cm	10cm	32m
Breadth	10m	9cm	2.5cm	50cm

Write the missing measurement in each of the triangles.

Base	16cm	45m	10cm	12cm
Height	8cm	12m	18cm	7cm
Area	64cm <sup>2</sup>	270m <sup>2</sup>	90cm <sup>2</sup>	42cm <sup>2</sup>

Write the missing radius or diameter.

Radius	15.3cm	18mm	4.9cm	27.6cm
Diameter	30.6cm	36mm	9.8cm	55.2cm

Find the volume of each of these boxes. length 13cm, breadth 8cm, height 2cm length 7cm, breadth 4cm, height 2.5cm cube of 6cm side

208cm<sup>3</sup> **70cm**<sup>3</sup> 216cm<sup>3</sup>

45

180