## Schofield $\&$ Sims



## A

## Answer

(1)

(2) $(3 \times 9)+6=$
(3) $5+\square=13$
(4) $9 \mathrm{~cm} \mathrm{4mm}=\square \mathrm{mm}$
(5) $237 p=f$
(6) $80 \times 10=$
(7) $(18 \div 3)-(16 \div 4)=$
(8) $\frac{3}{7}+\frac{2}{7}=$
(9) $28 p+80 p=f$
(10) $£ 6=\square 50 p s$
(11) $1 \mathrm{~h} 50 \mathrm{~min}=\square \mathrm{min}$
(12) $300-175=$

## B

## Answer

(1) Add four hundred to one thousand and ten. Answer in digits.
(2) Increase 29 by 33 .62
(3) Find the change from 50p after spending 28p.
(4) Multiply $£ 0.40$ by 8 .
(5) Write 87 to the nearest 10 .
(6) Divide 200 by 10 .
(7) Write as $£ s$ the sum of $26 p, 28 p$ and 50 p .
£1.04
(8) $27 p=\square p s$ plus six $2 p s$
(9) How many tenths in $1 \frac{1}{2}$ ?
(10) Subtract 36 p from $£ 1$.
(11) How many 2 ps have the same value as four 10ps?
(12) Find the cost of one if 10 cost $£ 1$.

C

## Answer

(1) Which of these numbers will not divide into 36 without a remainder?
$\begin{array}{llllll}1 & 2 & 4 & 6 & 8 & 9\end{array}$
8

2 Find the value of the missing number.
$24+28=\square+12$
(3) How many greater is $4 \times 7$
than $4+7$ ?

4

(5) By how much is the value of fifteen 2 ps less than the value of nine 5 ps? 9:07 p.m.
(6) If 100 g of flour costs 30 p , how much will 350 g cost?
(7) $(54 \div 9)+(3 \times 12)=$ £1.05
(8) Arrange these digits to make the largest possible number.

## $0 \quad 7 \quad 9 \quad 1$

9 Find the length in centimetres of the marked length.

(10) If $\frac{1}{2} \mathrm{~kg}$ costs 86 p , how much will $\frac{3}{4} \mathrm{~kg}$ cost?
£1.29
(11) Signs on a motorway are 100 m apart.

Find in kilometres the distance between 11 of the signs.
(12) Name the two rectangles, each of which has three quarters shaded.
$X \quad Y$

(1)

(2) $180+30=$
(3) $600 \div 10=$
(4) $98 \mathrm{~mm}=\square \mathrm{cm} \square \mathrm{mm}$
(5) $(8 \times 12)+7=$
(6) $204 \mathrm{~cm}=\square \mathrm{m} \square \mathrm{cm}$
(7) $240-70=$
(8) Write 37 using Roman numerals.
(9) $\frac{1}{5}$ of $25+\frac{1}{7}$ of $7=$
(10) $22+8+34=$
(11) 75 min $=\square \square$ min
(12 $£ 1.00-\square p=53 p$ - 1h 15min $47 p$

## B

## Answer

(1) Write in digits three thousand one hundred and fourteen.
(2) By how many grams is 820 g less than 1 kg ?
(3) Divide 1 m by 5 . Answer in centimetres. $\qquad$
4 Find the change from a 50 p after spending 16p.
(5) Find the cost of one if 10 cost $£ 2$.

6 How many eighths in 5 whole ones?
(7) $84 p=710 p s+\square 2 p s$
(8) Find the sum of $£ 0.24$ and $£ 0.69$.
(9) What must be added to 75 p to make $£ 1.50$ ?

10 How many minutes from 7:47 a.m. to 8:15 a.m.?

28 min
(11) One costs $£ 0.49$. Find the cost of three.
£1.47
12 Find the difference between $7 \times 9$ and $9 \times 6$.

## Answer

(1) Take two thousand and twenty from 2222.
(2) What number other than

1, 3 and 27 will divide into 27
without leaving a remainder?
9
(3) Which of the triangles is a right-angled triangle and has two equal sides?

(4) One-quarter of a class of 32 children have black hair. How many children do not have black hair?
(5) Which three coins are given in change from $£ 2$ after spending $£ 1.35$ ? $\quad 50 p$ 10p $5 p$

6 Write the total mass of the four tins in kilograms and grams.
$1 \mathrm{~kg} \quad 450 \mathrm{~g}$

(7) Find the difference between the two largest fractions in this set.
$\left\{\frac{3}{10}, \frac{6}{10}, \frac{13}{10}, \frac{4}{10}\right\}$
$\frac{7}{10}$
8 Find the difference between $(7 \times 10)$
and ( $7 \times 100$ ).
(9) Mia bought a box containing 500 straws. How many weeks will they last if she uses 20 straws each week?
(10) Write the sum of $£ 0.36, £ 1.24$ and $£ 1.40$.
$£ 3.00$
11) How many children altogether in the four classes?

| Class 1 | Class 2 | Class 3 | Class 4 |
| :---: | :---: | :---: | :---: |
| 25 | 26 | 25 | 24 |

(12. If baby food is sold at $£ 2$ per $\frac{1}{2} \mathrm{~kg}$, how many grams can be bought for
a $£ 1$
a
250 g
b 50p?
b
125 g
(1) $910+90=$
(2) $18 p+7 p=20 p+\square p$
(3) $15 \times 10=$
(4) $\frac{7}{9}-\frac{5}{9}=$
(5) $(10 \times 0)+(4 \times 8)=$
(6) $43+47=$
(7) $400-120=$ 280
( 8 ) $1 \mathrm{~kg}-250 \mathrm{~g}=\square \mathrm{g}$ 750 g
(9) $\mathrm{f} 3=\square 5 \mathrm{ps}$

10 $1 \mathrm{~h} 45 \mathrm{~min}=\square \mathrm{min}$
(11) $£ 2.67=\square 10 p s+7 p$
(12) $\left(\frac{1}{6}\right.$ of 42$)+\left(\frac{1}{5}\right.$ of 30$)=$

## Answer

(1) Find the total of 29 and 81 .
(2) What is the change from a 50p after spending $19 p$ and $18 p$ ?
(3) Decrease 20 cm by 20 mm .
(4) Multiply 6 by 12 and add 8 .
(5) Write 124 mm to the nearest centimetre.
(6) What sum of money is six times greater than $£ 0.19$ ?
£1.14
(7) Write 40 using Roman numerals.
(8) $\frac{1}{2} \mathrm{~kg}$ of spaghetti costs $£ 1.50$. What is the cost of 100 g ?

9 How many 5 ps are equal to $£ 2.75$ ?
(10) How many times greater is $£ 4.20$ than 42 p?
11) How many days altogether in the 6th and 7th months of the year?

61 days
12 How much change from four 20ps after buying eight buttons at $9 p$ each?

## Answer

(1) Write this date in digits only. The twenty-first day of August two thousand and seventeen.

21/08/2017
2


How many more grams must be placed in bag Z to match the weight of bag Y?

$$
700 \mathrm{~g}
$$

(3) $(4 \times 0)+(1 \times 9)+(10 \times 1)=$
(4) Which two of these fractions are equivalent?

| $\frac{3}{5}$ | $\frac{4}{5}$ | $\frac{3}{7}$ | $\frac{3}{4}$ | $\frac{3}{12}$ | $\frac{6}{10}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |

(5) One 20p and a $5 p$ were given as change from $£ 2$. How much had been spent?

6 Write the missing signs,,$+- \times$ or $\div$ in place of $\boldsymbol{\Delta}$.

$$
9 \bigcirc 4=25 \Delta 5
$$


(7) How much greater is the distance round the rectangle than the distance round the square?

(8) If 1 kg of fudge costs $£ 1$, find the cost of
a 100 g
a $\quad 10 p$
b 300 g .
b 30p
(9) Add three-quarters of 24 to one-seventh of 56.

10 Samina was born in January but Hassan was born 5 months earlier. In what month was Hassan born?

## August

11 Five biscuits of equal value cost 40p. What do three of the biscuits cost?

12 Tom and Sophie travel from home to school and back once a day. How many kilometres more does Sophie travel in 5 days than Tom?

$$
2 \mathrm{~km}
$$

(1) $485=\square$ tens +5 units
(2) $2 \frac{1}{2} \mathrm{~kg}=\square \mathrm{g}$ 2500 g
(3) $2000+900+70+6=$
(4) $25 \mathrm{~cm}=\square \mathrm{mm}$
(5) $9000 \div 10=$
(6) $£ 1.00-82 p=\square p$
(7) $37 \div 4=\square r$
(8) $p-8 p=5 p$
(9) $3103+97=$
(10) Write 44 using Roman numerals.
(11) $1 \mathrm{l}-350 \mathrm{ml}=\square \mathrm{ml}$

650 ml
(12) $(9 \times 9)+8=$

89

## B

(1) $\frac{1}{3}$ of a number is 8 .

What is the number?
(2) Subtract $£ 1.27$ from $£ 2$.
(3) Multiply $£ 2.08$ by 6 .
(4) Add 6 to the product of 7 and 7 .
(5) Find the remainder when 71 is divided by 8 .
(6) 28 p plus 46 p plus $\square p=£ 1$
(7) Add the odd numbers between 24 and 28.

Answer
and
(8) Increase $12 \frac{1}{2} \mathrm{~cm}$ by 25 mm .
(9) How many metres in $25 \mathrm{~cm} \times 8$ ?
£12.48

10 Eight pens cost 64 p. What did one cost? $\qquad$
(11) How many years from 1875 to 1985? 110
(12) If one sticker costs $£ 0.05$, find the cost of 100 .

## Answer

(1) Write the time 12 hours after 8 p.m. Use a.m. or p.m.
(2) Write nine-tenths as a decimal. 0.9
(3)

a Which of the shapes has two pairs of parallel lines, four sides of equal length and four right angles?
b Name this shape.
(4) Find the change from $£ 3$ after spending $£ 1.38$ and $£ 0.22$.
$£ 1.40$
(5) If six lemons cost 90p what is the cost of
a one lemon
a
b four lemons?
b
15p
a z
b square $\qquad$
6. By how many is $\frac{3}{4}$ of 20 greater than $\frac{3}{5}$ of 20?
7

$\qquad$
(8) In a drama club of 14 boys and 16 girls, three children were absent. What fraction of the children were
a absent
b present?
a $\frac{1}{10}$
$b \frac{9}{10}$

10 How many packets of popcorn each having a mass of 250 g can be made from a $4 \frac{1}{2} \mathrm{~kg}$ pack?
(11) The distance round a triangle having equal sides is 18 cm . Write the length of each side in millimetres. 60 mm
(12) A packet of mints has a mass of 188 g . Write the mass of 10 packets

| a to the nearest 100 g | a | 1900 g |
| :--- | :--- | ---: |
| b to the nearest kilogram. | b | 2 kg |

(1) $43 \div 6=\square r$ $\qquad$
(2) $500=\square$ tens 50 T
(3) $\frac{1}{12}+\frac{10}{12}=$
(4) $186 \mathrm{~cm}=\square \mathrm{m} \square \mathrm{cm}$
(5) $2200+800=$
(6) $167 \mathrm{~mm}=\square \mathrm{cm} \square \mathrm{mm}$
(7) 11:16 a.m. to noon $=\square$ min
(8) $210 \times 10=$
(9) $15-6=\square+3$
(10) $77 p+25 p=£$
(11) $(5 \times 9)+16=$
(12) $(72 \div 9)+(0 \div 3)=$
(1) Find the sum of $£ 1.80$ and $£ 0.18$.
(2) Subtract 40 mm from 15 cm .
(3) Write in digits, three thousand and fifty-nine.
(4) Write in digits the time that is $4 \frac{1}{4}$ hours after midday.
Use a.m. or p.m.
4:15 p.m.
(5) Multiply 9 by 90 . 810
(6) Add $£ 0.19$ to $£ 2.36$.
(7) Find the difference between $£ 5$ and $£ 3.44$.
$£ 1.56$
(8) Write in digits the number that is half of nine thousand.

4500
(9) Find in centimetres, $\frac{3}{10}$ of half a metre. $\qquad$
(10) What is the product of 5 and 75 ? 375
(11) What must be added to $13 p$ and 16 p to equal 40 p?

12 Find the cost of one scarf if 10 cost $£ 25$. £2.50
$-$

## C

## Answer

(1) Find the cost of $1 \frac{1}{2} \mathrm{~kg}$ of tomatoes at 28 p per kg .

42p

2
$\left.\begin{array}{|lr|l}\begin{array}{|lr|}\hline \text { three } & 10 \mathrm{ps}\end{array} & \begin{array}{l}\text { Olivia exchanged } \\ \text { fourteen }\end{array} & 5 \mathrm{ps}\end{array}\right)$

3059
6 20ps
(3) Which fraction in the set is not equivalent to the others?

$$
\left\{\frac{4}{6}, \frac{12}{15}, \frac{6}{9}, \frac{8}{12}, \frac{2}{3}\right\}
$$

(4) How many months in a year have 31 days?
(5) Connor travelled 400 km in 3 days. On the first day he travelled 130 km and on the second day 228 km . How far did he travel on the third day?
$\qquad$
$\frac{12}{15}$

6


What fraction of the circle is
a shaded
b unshaded?
(7) Ribbon costs $12 p$ per $\frac{1}{2} \mathrm{~m}$.

Find the cost of 125 cm .
a $\frac{5}{8}$
b $\frac{3}{8}$

$$
42 \mathrm{~km}
$$

(8) By how much is 25 p divided by 5 less than 25 p multiplied by 8 ?
$£ 1.95$
(9) Ryan saved 55 p each week for 8 weeks. How much short of $£ 5$ did he save?
$£ 0.60$

10 Georgia had 45p left after spending $£ 1.08$ and losing $£ 0.27$.
How much had she at first?
$£ 1.80$
11 The children were placed in two mixed-year groups of equal numbers. How many children were there in each class?

| Silverside School |  |
| :--- | :--- |
| Number <br> of children | Year 5-33 |
| Year 6-29 |  |

(12) Write the missing signs,,$+- \times$ or $\div$ in place of $\boldsymbol{\Delta}$.

$$
9 \bigcirc 5 \Delta 6=8
$$

(1) $8000+\square+40+8=8548$ 500
(2) 5 weeks $=\square$ days
(3) $420 \div 10=$ $\qquad$
(4) $£ 1.00-28 p=\square p$ $72 p$
(5) $1030+70=$
(6) $1 \mathrm{l}-450 \mathrm{ml}=\square \mathrm{ml}$
(7) $58 \div 8=\square r$
(8) $6+\square=9+4$
(9) $63 \mathrm{~cm}+38 \mathrm{~cm}=\square \mathrm{m} \square \mathrm{cm}$
(10) $\frac{5}{12}+\frac{8}{12}=$ $\qquad$
(11) $\left(\frac{1}{6}\right.$ of 54$)+\left(\frac{1}{3}\right.$ of 12$)=$ 13

12 $(4 \times 5)+(4+5)=$
29

## B

(1) Find the difference in centimetres between 5 m and 465 cm .
(2) How many thirds in 3 whole ones?
(3) Divide $£ 4.20$ by 7 .
(4) Subtract 60 cm from $1 \frac{1}{2} \mathrm{~m}$.

## Answer

(5) Write in digits the time that is $2 \frac{3}{4}$ hours after 11 a.m. Use a.m. or p.m.

1:45 p.m.
(6) Find the sum of $£ 0.48$ and $£ 1.54$.
(7) Write 59 using Roman numerals.
(8) $18 p+18 p+18 p+18 p=$
(9) How many 50ps would be exchanged for $£ 9.50$ ?

19 50ps
(10) Find the cost of 10 if one costs 25 p.
$£ 2.50$
(11) Multiply $\$ 1.99$ by 3 .
\$5.97
(12) How many flowers each costing $4 p$ can be bought for $£ 2$ ?

C

## Answer

(1) From five thousand subtract nine hundred. Write the answer in digits.
(2) Divide the sum of $4 p, 6 p, 8 p$ and 10 p into four equal amounts. How much is each amount?
(3) What number must be subtracted from 58 to leave 29?

4

(5) $18+9-\square=10$. Find the value of the missing number.

6 Find the change from $£ 1$ after buying six bananas at 14 p each.
(7) How much greater is $£ 0.72 \div 8$ than $42 p \div 6$ ?

8 Find the total cost of six tins of tomatoes and three tins of tuna.
£5.10
a $2 \mathrm{~kg} \quad 700 \mathrm{~g}$
b $\quad 1 \mathrm{~kg} \quad 440 \mathrm{~g}$


Which of the triangles is
a a right-angled triangle
b an acute-angled triangle
c an obtuse-angled triangle?
a $Z$
b $Y$
c X
(11) Take $\frac{1}{4}$ of 100 from $\frac{7}{10}$ of 100 .
(12) How many minutes longer is it from 9:10 a.m. to noon than from 1:30 p.m. to 4:00 p.m.?

A
(1) $\frac{13}{10}-\frac{6}{10}=$
(2) $£ 1.50+65 p=£$
(3) $11600 \mathrm{ml}=\square \mathrm{ml}$
(4) $2000+\square+6=2036$
(5) $38 \div 9=\square r$
(6) From noon to 4:15 p.m. $=\square \mathrm{h} \square$ min
(7) $70 \times 100=$ 7000
(8) $(9 \times 7)+(8 \times 5)=$ 103
(9) $4046+54=$
(10) $17-8-4=$
(11) $252 \mathrm{ps}=\square 10 \mathrm{ps}$
(12) $(49 \div 7)+(36 \div 6)=$

## B

Answer
(1) Find the product of 6 and 14 .
(2) How much greater is $£ 5$ than $£ 3.31$ ?
£1.69
(3) Find the total of the odd numbers between 6 and 12 .
(4) How many fifths are equal to eight-tenths?

(5) Multiply $12 p$ by 7 . $\qquad$
(6) Subtract 200 g from $\frac{1}{4} \mathrm{~kg}$.
(7) Four pencils cost 60p. Find the cost of one pencil.

15p
8 Find the difference in length between $1 \frac{1}{2} \mathrm{~m}$ and 135 cm .

15 cm
(9) Write 96 mm to the nearest centimetre.

10 cm
10 How many times smaller is 80 than 8000?
(11) 100 cost $£ 4.00$.

What is the cost of one?
(12) Write as $£ s$ the value of thirty-nine 5ps.

C

## Answer

(1) Ahmed has $£ 1.56$ and Katie has $£ 1.44$. If they share their money equally, how much does each have? £1.50
(2) Write the next two numbers in the sequence.
5, 4, 3, 2, 1, 0, $\qquad$
$\qquad$
$-1$
(3) Find the cost of 500 g if 200 g cost 40p.
$£ 1.00$
(4) How many times larger than 25 is
a two hundred and fifty
a 10
b two thousand five hundred?
b 100
(5) A concert started at 7:15 p.m. The programme lasted for $1 \frac{1}{2}$ hours. There was also a 10 minute interval. At what time did the concert end? 8:55 p.m.
(6) Write 4 m 45 cm as
a centimetres
b millimetres.

| a | 445 cm |
| :--- | ---: |
| b | 4450 mm |

(7) Find the change from $£ 2$ after buying $3 \frac{1}{4} \mathrm{~kg}$ of cheese at 40 p per kilogram. 70p

8 Five less than three thousand one hundred. Write the answer in digits. 3095
(9) How many greater is the sum of the odd numbers in the box than the sum of the even numbers?

| 30 | 35 | 39 | 42 |
| :--- | :--- | :--- | :--- |

2

10 Freya has 80p pocket money.
She saves $\frac{1}{5}$ and spends the remainder. How much does she
a save
a 16p
b spend?
b 64p

11 Nine trays, each containing six cakes, were bought for a party. If nine cakes were left over, how many had been eaten?

(12) Write all the numbers between 40 and 60 which are multiples of 7 .
(1) $2 \times 2 \times 2=$
(2) $p+£ 1.28=£ 1.50$
(3) $290+120=$
(4) $2 \frac{1}{4} \mathrm{~m}=\square \mathrm{cm}$
(5) $51 \div 4=\square r \square$
( $10 p+10 p+5 p-14 p=$
(7) $110 \mathrm{~mm}=\square \mathrm{cm}$
(8) $\frac{13}{9}-\frac{8}{9}=$
(9) $2 \frac{3}{4} \mathrm{~kg}=\square \mathrm{g}$
10) $(7 \times 6)+(8 \times 0)=$

11 48 hours $=\square$ days
(12) $\left(\frac{1}{9}\right.$ of 27$)-\left(\frac{1}{8}\right.$ of 8$)=$

2 days
$\qquad$

B
Answer
(1) Write 84 using Roman numerals. LXXXIV
(2) Write 4750 g to the nearest kilogram. 5 kg
(3) Find the product of 8 and 65 .
(4) How many teabags costing $6 p$ each can be bought for $£ 3.00$ ?
(5) How many months in five years?
(6) What must be added to $£ 2.52$ to make $£ 5$ ?
£2.48
(7) A 64 cm strip is cut into eight equal pieces. Write the length in millimetres of one piece.

80 mm
(8) Multiply 16 by 7 .
(9) Decrease $5 \frac{1}{4} \mathrm{~m}$ by 50 cm . Answer in metres. $4^{\frac{3}{4}} \mathrm{~m}$
(10) If one yoghurt costs $9 p$, find the cost of 100 .
£9.00
11 Find the difference between
$(136+66)$ and $(10 \times 20)$.
(12) How many 2 ps have the same value as twenty 5 ps?

50 2ps

## Answer

(1) What must be added to 25 cm and 39 cm to make 1 m ?
(2) What is the number nearest to 60 that will divide by 9 without a remainder?
(3)


The three marked points are three vertices of a square. Write the coordinates of the fourth vertex of the square.
( $\square, \square$ )

(4) Continue the sequence:

7, 5, 3, 1, $\qquad$ $-1 \quad-3$
(5) Four sweets cost 9p. Find the cost of 20 sweets.

6


The distance round the rectangle is 20 cm . If the length is 6 cm , what is the width?

7 Find the value of the missing number.
$13+19=\square+25$
8


6:53 a.m.
(9) Eva's uncle is 34 years and 5 months old. Eva's aunt is 33 years and 8 months old. How many months older is her uncle than her aunt?
(10) What fraction of 1 kg is each bar of soap?

(11) Write these decimals in
ascending order.

$$
\begin{array}{llll}
\hline 3.6 & 3.1 & 2.8 & 0.9 \\
\hline
\end{array}
$$

$0.9 \quad 2.8$
$3.1 \quad 3.6$
(12) Write the missing signs,,$+- \times$ or $\div$ in place of $\boldsymbol{\Delta}$.
$(5 \bigcirc 5) \Delta 5=20$
$\times \quad$ -

Answer
(1) $£ 2.40+70 p=£$
£3.10
(2) $1 \frac{3}{4} \mathrm{~m}=\square \mathrm{cm}$
(3) $6 p \times 12=f$
(4) $17 \mathrm{~mm}+18 \mathrm{~mm}=\square \mathrm{cm}$
(5) $(6 \times 8)-(4 \times 7)=$
(6) $£ 3.00-£ 2.18=\square$
(7) $59 \div 6=\square r$
(8) $\frac{17}{10}-\frac{8}{10}=$
(9) $4500 \mathrm{~m}=\mathrm{km}$

10 $\frac{6}{8}=\square$ quarters
11 24 months $=\square$ years
(12) 11:25 a.m. to $12: 15$ p.m. $=\square \mathrm{min}$

## B

## Answer

(1) Subtract 8 from 103.
(2) Write the name of the coin that has the same value as $£ 0.10$.
(3) Find six-tenths of 80 cm .
(4) By how many centimetres is $2 m$ greater than the sum of 80 cm and 90 cm ?
(5) Add twenty-five to one thousand and eighty.

6 Find the cost of one toothbrush if 10 cost $£ 5.40$.

7 How many sixths in $\frac{2}{3}$ ?
8 How many millilitres must be added to 270 ml to make $\frac{1}{2}$ ?

9 Find the total of $4 \frac{3}{4} \mathrm{~m}$ and $2 \frac{1}{2} \mathrm{~m}$.
10 Write 5300 g to the nearest kilogram.
(11) Divide the sum of 19 and 16 by 5 .

12 Write 63 using Roman numerals.
$\qquad$

230 ml
$\qquad$
95
$10 p$

48 cm

30 cm
macm
1105


C
Answer
(1) Subtract $(50 p \times 10)$ from $(5 p \times 100)$. $\qquad$
(2) By how many millimetres is the line $A B$ longer than the line CD?

(3) Rhys has 29 merit points and James has twice as many. How many have they altogether?87
(4) How many glasses, each holding 300 ml , can be filled from a jug holding $1 \frac{1}{2}$ l?

5


What is the distance in centimetres all round this regular hexagon? $\quad 36 \mathrm{~cm}$
(6) How many greater is $\frac{3}{4}$ of 12 than $\frac{2}{3}$ of 12 ?
(7) Put these decimals in ascending order.

| 0.53 | 5.01 | 1.35 | 3.51 | 1.51 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | 0.53 | 1.35 | 1.51 | 3.51 | 5.01 |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

(8) The diagram shows how three friends shared $£ 5$. How much did each child have?

| Hassan | Sienna | Abi |  |
| :---: | :---: | :---: | :---: |
|  | $\perp$ | 1 | 1 |


| Hassan | $£ 1.50$ |
| :--- | ---: |
| Sienna | $£ 2.50$ |
| Abi | $£ 1.00$ |

(9) Which three coins are given in change from $£ 1$ after spending $83 p$ ? $10 p \quad 5 p \quad 2 p$
(10) If 27 January is a Wednesday, what date is the following Wednesday?

3 February

11 The scale shows the mass of a bag of sugar. How much will it cost if the price is 30 p for 100 g ?
$£ 1.35$

12. By how many is 15 times 100 less than 3 times 1000?
(1) $£ 1.00-14 p=\square p$

86p
(2) $15 \mathrm{~mm} \times 10=\square \mathrm{cm}$
(3) $£ 1.50+£ 2.60=$
(4) $5450 \mathrm{~m}=\mathrm{km} \square \mathrm{m}$
(5) $27 p \times 4=f \square$
(6) $\frac{1}{5}$ of $£ 3.00=\square p$
(7) Write 8 hundredths as a decimal.
(8) 5 days $=\square$ hours
(9) $(56 \div 7)-(9 \div 9)=$
(10) $\frac{1}{2} \mathrm{l}-389 \mathrm{ml}=\square \mathrm{ml}$
(11) $1 \mathrm{~m}=\square \mathrm{mm}$
(12) $(9 \times 6)+(10 \times 5)=$

104

## B

(1) Increase 57 by 35 .

## Answer

2 Half of a sum of money is 49p. What is the whole amount?
(3) How many 10 cm lengths are there in 5 m ?
(4) Multiply the sum of 5 and 4 by 8 . 72
(5) How many pence in $\frac{3}{8}$ of 40 p? 15p
(6) $7 \times \square=98$

Find the missing number.
(7) Write the time $\frac{1}{2} \mathrm{~h}$ before 12:05 a.m. Use a.m. or p.m.

11:35 p.m.
(8) 420 minus 80 equals 300 plus
(9) What is the cost of eight oranges if one orange costs $£ 0.19$ ?
$£ 1.52$
10 Find the difference between $\frac{1}{8}$ and $\frac{6}{8}$.

11 How much short of 3 m is 265 cm ?
35 cm
(12) Write 81 using Roman numerals.

C
Answer
(1) From the sum of 24 and 29 take 13.

40
(2) Arrange the digits 4, 0, 2, 5 to make the largest possible even number.

5420
(3) The distance round a square is 72 cm . What is the length of one side?

18 cm
(4) Write the next two numbers in this sequence.
$6,4,2,0$,
$\square$,
$-2 \quad-4$
(5) How far is it from $C$ to $B$ ?

240m


6


Write the total number of degrees of the four angles in a rectangle.
$360^{\circ}$
(7) What is the smallest number into which both 4 and 6 will divide exactly?
(8) A school was opened in 1958.

How many years will the school
have been open by the year 2020?

9 If 1 l of milk costs 70 p , find the cost of
a 100 ml
b 400 ml .
a
$7 p$
b 28p

10


Kiera had these coins. How much more is needed to make her money up to $£ 1.20$ ?
(11) Write the missing signs,,$+- \times$ or $\div$ in place of and $\mathbf{\Delta}$.
(12
3) $\boldsymbol{\Delta} 6=10$
$0 \div+$
$\qquad$
(12) Which two coins are given in change from $£ 2$ after spending $83 p$ and 66 ?
(1) $1 \mathrm{~m} \mathrm{50} \mathrm{cm} \div 10=\square \mathrm{cm}$
(2) $\frac{1}{2} \mathrm{~kg}+375 \mathrm{~g}=\square \mathrm{g}$
(3) $7300 \div 100=$
(4) $\frac{7}{8}+\frac{6}{8}=$
(5) $£ 3.00-£ 1.13=$
(6) $450 \mathrm{~km}-360 \mathrm{~km}=$
(7) $£ 2.47+£ 1.63=$
(8) $1 \frac{1}{2} \mathrm{~m}=\square \mathrm{mm}$
(9) $(7 \times 8)-(5 \times 6)=$
(10) $25 \mathrm{~mm} \times 8=\square \mathrm{cm}$

20 cm
(11) 10:24 a.m. to 12:10 p.m.
$=\square \mathrm{h} \square$ min $\quad 1 \mathrm{~h} 46 \mathrm{~min}$
(12) $\left(\frac{1}{7}\right.$ of 42$)-\left(\frac{1}{9}\right.$ of 18$)=$

## B

## Answer

(1) Write seven-tenths as a decimal.
(2) Write the next two numbers in this sequence.
$36,48,60,72$,
84
(3) Find the total of $£ 2.36$ and $£ 0.99$. $£ 3.35$
(4) $\frac{9}{10}$ of a sum of money is $£ 45$.
Find the whole amount.
(5) Write 96 using Roman numerals.

XCVI
(6) How many grams are there in $\frac{1}{10} \mathrm{~kg}$ ? $\qquad$
(7) What is the difference
between 42 and 420 ?
(8) Six packets of crisps cost $£ 2.16$. What is the cost of one?
(9) Write 250 mm in metres.
(10) Add 2 times 9 to 5 times 9 .63
11) If five crackers cost 30p, what will 15 cost?
(12) In the number 9440 how many times greater is the 4 marked $x$ than the 4 marked $y$ ?

C

## Answer

(1) In a library there are 138 fiction books and 144 non-fiction books. How many books are there altogether?
(2) What fraction of 1 hour is
a 20 minutes
b 40 minutes?

(3) 8 kg 500 g is divided into 10 equal quantities. What does one of the quantities weigh?

850 g
(4)

£4.50
(5) Write these fractions in
descending order.

| $\frac{1}{8}$ | $\frac{1}{6}$ | $\frac{1}{10}$ | $\frac{1}{12}$ | $\frac{1}{3}$ |
| :---: | :---: | :---: | :---: | :---: |

 $\frac{1}{12}$
(6) By how many metres is the sum of 870 m and 650 m more than $1 \frac{1}{2} \mathrm{~km}$ ? 20 m
(7) Which number when multiplied by itself equals 64?
(8) Write the length of a line 100 times longer than the line $Y Z$
a in centimetres a 650 cm
b in metres.
b $\quad 6 \frac{1}{2} \mathrm{~m}$

(9) Lucy has three times as much as Jakob who has 45p. How much have they altogether?
£1.80
10


This is a plan of a playground.

How many times must George run round it in order to run 1 km ?

5
(11) If $\frac{1}{2} \mathrm{~kg}$ of salt costs 40 p , find the cost of
a 100 g
a $8 p$
b 600g.
b
48p
(12) Put these decimals in descending order.

```
6.9
```

| 13.1 | 6.9 | 6.3 |
| :--- | :--- | :--- | 3.7

(1) $5505-500=$
(2) $100 \times 21=$
(3) $14 \mathrm{~cm}+15 \mathrm{~cm}+16 \mathrm{~cm}=$
(4) $3 \times 3 \times 3=$
(5) $28 p+25 p+45 p=£$
(6) $£ 10.46=\square 10 p s+6 p$
(7) $\frac{3}{10}$ of $1 \mathrm{~km}=\square \mathrm{m}$
(8) 8 a.m. to 6 p.m. $=\square \mathrm{h}$
(9) $1 \frac{1}{2} \mathrm{~kg}-600 \mathrm{~g}=\square \mathrm{g}$
(10) $(5 \times 7)+(10 \times 8)=$
(11) $\frac{3}{4} l-200 \mathrm{ml}=\square \mathrm{ml}$

550 ml
(12) $(36 \div 9)+(100 \div 10)=$
(1) Find the sum of 73 and 48 .
(2) Write 1560 mm as metres and millimetres.
(3) Find half of the sum of $12 p$ and $18 p$.
(4) What is the product of 4,5 and 6 ?
(5) How many eighths are there in 7 whole ones?
( 6 Find the cost of 24 eggs at $6 p$ each.
(7) What is the remainder when 61 is divided by 9 ?

8 How many years are there from 1984 to the year 2020?
(9) What number is 101 less than 1000 ? 899
(10) 100 chocolates cost $£ 10.00$. Find the cost of one.
(11) Add the numbers between 20 and 35 that can be divided exactly by 8 .
(12) Find the cost of $3 \frac{1}{2} \mathrm{~m}$ of ribbon at 16p per metre.

## C

Answer
(1) Divide the sum of $7,11,6$ and 4 by 7 .
(2) How many 30 cm lengths can be cut from a 3 m length?
(3) Find the cost of 21250 ml of shampoo if 1 l costs $£ 2$.
£4.50
(4) What must be added to $7+9$ to equal $7 \times 9$ ?

47
(5) 300 keyrings cost $£ 18$. Find the cost of
a 100
a $£ 6$
b 10 .
b
b 60p
6 Find the length, in millimetres, of the length marked '?'.

30 mm

(7) Dan goes to bed at 7:45 p.m. and gets up at 7:45 a.m. How many hours is he in bed?

$$
12 \mathrm{~h}
$$

( William bought the chess set at a quarter less than the advertised price. How much did he pay?
$£ 2.70$

Chess set $£ 3.60$


The diagram shows two children's heights. How much taller is Fatima than Amy a in centimetres a 17 cm
$b$ in millimetres? $b$
b $\quad 170 \mathrm{~mm}$

10 How many 200 ml cups can be filled from a bottle holding 4 l ?
(11) Write 94 using Roman numerals.

XCIV
(12) There are 2055 people in a village. Write the number of people
a to the nearest 10
a 2060
b to the nearest 100
b 2100
c to the nearest 1000 .
c 2000

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 - $\mathbf{1 0}$ minutes.
(1) $170+280=$
(2) $\left(\frac{1}{5}\right.$ of 45$)-\left(\frac{1}{7}\right.$ of 63$)$
(3) $(8 \times 8)+(6 \times 6)=$
(4) $(450 \div 10)-(3500 \div 100)=$
(5) Write in digits nine thousand and sixteen.
(6) Write 99 using Roman numerals.
(7) Add the numbers between 40 and 50 that can be divided by 7 without a remainder.
(8) Which of the fractions has the same value as a half?

| $\frac{3}{4}$ | $\frac{2}{5}$ | $\frac{5}{6}$ | $\frac{3}{8}$ | $\frac{5}{10}$ | $\frac{25}{100}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |

$\qquad$
9 How much more than $1 \frac{1}{2} \mathrm{~kg}$ is the total mass of the three boxes? $\qquad$


10 Which three coins are given in change from $£ 2$ after spending 60 p and $78 p$ ?
(11) Find the cost of one pencil if 10 pencils cost $£ 1.10$.
(12. How many minutes are there from 11:17 a.m. to 12:15 p.m.? $\qquad$
13 N A boy stands facing west and turns left through three right angles. In which direction is he then facing? $\qquad$
(14) Find the cost of 300 ml if $\frac{1}{2} \mathrm{l}$ costs 35 p .

15 Put these decimals in ascending order.

| 0.58 | 3.11 | 0.85 | 4.01 | 3.09 |
| :--- | :--- | :--- | :--- | :--- |

$0.58,0.85,3.09,3.11,4.01$
16


The diagram represents the 64 cars which passed a school in one hour. How many of the cars were blue?
(17) What fraction in its simplest form is 900 g of 1 kg ?
(18) Write to the nearest $£$ the sum of $£ 3.80$ and $£ 2.69$.

19 Find the cost of 100 apples if one apple costs $8 p$.
20


Write as $£ s$ the total of the contents of the packets.

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.

(1) $7+33+9=$
(2) $814 \div 2=$
$\qquad$
(3) $(19+5)-(7+8)=$
(4) $1 \frac{1}{4} \mathrm{~m}=\square \mathrm{mm}$
(5) 1 minute $=\square$ seconds
(6) $9+9+9+9=$
(7) $\frac{2}{5}=\square$ tenths
(8) $34 \mathrm{p} \times 6=\mathrm{f}$
(9) From 10:14 a.m. to noon $=\square \mathrm{h} \quad \mathrm{min}$
(10) Round 3.7 to the nearest whole number.

4
(11) $11 \times 12=$
(12) $61 \div 8=\square r$

## B

## Answer

(1) Write in digits nine thousand seven hundred and nine.

9709
(2) There is 69 p change from $£ 2$. How much has been spent? $\qquad$
(3) Write 1700 g to the nearest kilogram. $\qquad$
(4) Divide $£ 2.94$ by 6 .
(5) Take 6 plus 5 from the total of 8 and 17.
(6) How many seconds in
a $\frac{1}{2} \min$
b $1 \frac{1}{4} \mathrm{~min}$ ?
a 30s

7 Find the sum of the odd numbers between 56 and 60 .
(8) Add LXI and XXXIV and write your answer using Roman numerals.

XCV
(9) Find the cost of $2 \frac{1}{2} \mathrm{~kg}$ of peppers at 28 p per kg .

70p
(10) What must be added to 5 plus 80 to equal 5 multiplied by 80 ?

315
(11) If 2 l of milk cost $48 p$, find the cost of $\frac{1}{4} \mathrm{l}$.
$6 p$
(12) Find $\frac{1}{6}$ of 84 .

## Answer

(1) Write as a decimal fraction
a the shaded part
a 0.4
b the unshaded part.
b 0.6

(2)


10 minutes to 4 in the afternoon
(3) How many 600 ml bottles can be filled from 6I?
(4) Zach had $£ 1$. He spent $28 p$ on crisps and $42 p$ on bus fares. How much had he left?

30p
5 $\square$ The perimeter of this square is 60 mm . Find the length of one side.

15 mm
(6) Preet has 28p and his sister has four times as much. How much have they altogether?
£1.40
(7) Tom exchanged these coins for 50 ps .

How many 50ps did he get?


8 The first day of Josh's holiday was 29 June and the last day was 2 August. For how many days was he on holiday?
(9) The diagram shows how the children shared $£ 4.20$. How much did each receive?

| Daisy | Shahid | Sam |
| :---: | :---: | :---: |
| $\frac{1}{3}$ | $\frac{1}{2}$ | $\frac{1}{6}$ |

Daisy $£ 1.40$
Shahid $£ 2.10$
Sam £0.70
(10) The sum of three numbers is 94 .

Two of the numbers are 36 and 35 .

What is the third number?
11 How many weeks will it take
Chen to save $£ 5.00$ if he
saves 25 p each week?
(12) Which two of these numbers can be divided by both 4 and 9 without a remainder?
(1) $25+5+16+4=$
(2) $2009-10=$
(3) $85 p \times 4=f$
(4) $900 \mathrm{ml}+870 \mathrm{ml}=\square \mathrm{l} \square \mathrm{ml}$
(5) $\frac{18}{3}=\square$ whole ones
(6) $30-(7 \times 4)=$
(7) $2670 \mathrm{~m}+\square \mathrm{m}=3 \mathrm{~km}$
(8) $£ 2.58 \div 3=\square p$
(9) $(15-6)+(33-4)=$
(10) Round 4.9 to the nearest whole number.

11 Find
a $\frac{1}{8}$ of 72
a 9
b $\frac{7}{8}$ of 72 .
b 63
(12) $11 \times 11=$
$£ 3.40$
11770 ml
6
2
330 m
86p

| 38 |
| :--- |

5

## B

## Answer

(1) Write as a decimal fraction
a $\frac{3}{10}$
a 0.3
b $\frac{5}{10}$.
b 0.5
2. How many hours and minutes in 95 min ?
(3) Which three coins together equal $57 p$ ?
(4) Subtract 50 from 8000 .
(5) Write 435 cm to the nearest $\frac{1}{2} \mathrm{~m}$.
(6) If 10 stickers cost 32p, what will be the cost of 40 stickers?
$£ 1.28$
(7) What is the total of seven, twenty-nine and fourteen?
(8) 1 kg costs $£ 1.28$. What is the cost of 250 g ?
(9) Add XXVII and XL and write your answer using Roman numerals.

LXVII
10 How many grams must be added to 970 g to make $1 \frac{1}{2} \mathrm{~kg}$ ?

530 g
(11) Multiply the sum of 16 and 9 by 8 . 200
(12) Subtract 8 from the product of 9 and 7.

1 Continue the sequence.
$16,12,8,4,0$, $\qquad$ $-4 \quad-8$
(2) Write, in 24-hour clock format, the correct time for each digital clock if a clock $X$ is 18 min fast
a 09:57
b clock Y is 25 min slow.
b 00:15

## 

$X \quad Y$
(3) Find the cost of $6 \frac{1}{2} \mathrm{~m}$ of ribbon at $18 p$ per metre.
$£ 1.17$

4 A tub of playdough has a mass of 450 g . Find to the nearest kg , the mass of six tubs.

3 kg
(5) Which line is parallel to the line $A B$ ?

(6) Jessica bought the following: cupcake 45 p, milkshake 65p. How much change did she get from $£ 2$ ?

(8) What must be added to one-sixth of 48 to equal $\frac{1}{7}$ of 63?

9 Find the difference between
$(8+8+8+8)$ and 8 times 6 .
(10) What is a half-share of the sum of six 5 ps and eight 2 ps ? $\qquad$

11

| Doughnuts |
| :---: |
| $21 p$ each |
| Six doughnuts |
| for $£ 1.14$ |

How much is saved per doughnut by buying six doughnuts?
(12) 50 napkins are used on each of 5 days in a week. How many weeks will 2000 napkins last?

(2) $(5 \times 6)+4=$
(3) 80 tenths $=\square$ units
(4) $\frac{2}{3}=\square$ sixths
(5) $46+64=$
(6) $125 \times 4=$
(7) $\frac{3}{4} \mathrm{~min}=\square \mathrm{s}$
(8) $(9+9)-(4+8)=$
(9) $(96 \div 12)+(0 \div 8)=$
(10) $£ 8.54 \div 7=$
(11) $1 \frac{1}{2} \mathrm{~km}-560 \mathrm{~m}=\square \mathrm{m}$
(12) $£ 5.00-£ \square=£ 3.46$

## B

1 Write as a decimal fraction of a centimetre
a 5 mm
a $\quad 0.5 \mathrm{~cm}$
b 8 mm .
b
0.8 cm
(2) How many hours and minutes from noon to quarter to four in the afternoon?

3h 45min
(3) Write 6 m 875 mm to the nearest metre.

(4) Find the cost of $4 \frac{1}{4} \mathrm{~kg}$ at 16 p per kilogram.

68p
(5) Multiply 6 by 6 and divide the answer by 9 .
(6) $\frac{3}{4}$ of a sum of money is 21 p. Find the sum of money.

28p
(7) Find the total of $(16+9)$ and $(5 \times 5)$. $\qquad$
8 Find one half of four thousand five hundred. Write the answer in digits. $\qquad$
(9) Subtract the sum of $23 p$ and $28 p$ from $£ 1$. $\qquad$
10 Add the even numbers between 35 and 39.
(11) How many 5ps are equal in value to $£ 7$ ?
(12) Make each of the following 10 times smaller.
a 8
a 0.8
b 131
b 13.1

## Answer

(1) Write the length of the line $Y Z$
a in centimetres and millimetres
a $5 \mathrm{~cm} \quad 7 \mathrm{~mm}$
b in centimetres.
b
5.7 cm


2 Find the difference between
$\frac{1}{4}$ of $£ 0.76$ and $\frac{3}{4}$ of $£ 0.76$.
(3) How many days altogether in April, May and June?

4

| SALE |
| :---: |
| All games reduced <br> by 15 p per $£ 1$ |

How much will be paid for a game that cost £3 before the sale?
$£ 2.55$
(5) What number when multiplied by itself gives the number 22 more than 99?
(6) Which two of the fractions when added together equal one whole one?

| $\frac{3}{4}$ | $\frac{1}{3}$ | $\frac{1}{5}$ | $\frac{5}{8}$ | $\frac{4}{6}$ |
| :--- | :--- | :--- | :--- | :--- |


(7) The perimeter of a square is 10 cm . Find the length of one side
a in centimetres and millimetres
b in centimetres.
a 2 cm 5 mm
b $\qquad$
(8) A builder ordered 130 kg of cement instead of 13 kg . By how many kilograms was the order too much?
(9) Write in digits the times shown on the clocks. Use a.m. or p.m.
a 11:23 a.m.
b 8:52 p.m.


1028 children were on a bouncy castle.
There were four more girls than boys.
How many boys were there on the bouncy castle?
(11) Scissors cost 44p each and rulers half as much. Find the total cost of 6 pairs of scissors and six rulers.

12 For their birthday, twins Emily and Eloise were given four 50ps, six 20ps and two 5ps, which they shared equally. How much did each have?
£1.65
(1) $7.6 \mathrm{~cm}+4 \mathrm{~mm}=\square \mathrm{cm}$
(2) Write as a decimal $100+10+1+\frac{1}{10}$
8 cm
(3) $50 p-\square=27 p$ 111.1
(4) $(17-8)+(11-7)=$
(5) $\frac{1}{10}$ of $1 \mathrm{l}=\square \mathrm{ml}$
(6) $10000+900+8=$
(7) $3 \frac{3}{4}=\square$ quarters
(8) $(8 \times 3)-(0 \times 5)=$
(9) $17 p \times 7=f$
£1.19
10 Find
a $\frac{1}{5}$ of $£ 45$
a $£ 9$
b $\frac{3}{5}$ of $£ 45$.
(11) $44 \div 9=$
b $£ 27$
(12) Round 32.4 to the nearest whole number.

## B

## Answer

(1) Write as a decimal a 36 tenths
b 104 tenths.
a 3.6
b 10.4
(2) By how many is 44 greater than 19 ? $\qquad$
(3) What fraction of 1 km is a 100 m
b 700m?


4 Find the cost of 20 balloons if five cost 77p.
$£ 3.08$
(5) From half past eight to twenty to ten in the morning $=\square \mathrm{h} \square$ min.

1h 10 min
(6) From the product of 12 and 9 subtract 13.

95
(7) Find five-sixths of $£ 54$.
( How many millilitres must be added to $4 \frac{1}{4} \mathrm{l}$ to make 5 l ?

750 ml
(9) Make each of the following 10 times larger.
a 0.7
a 7
b 2.3
b 23
$£ 5.49$

10 Multiply 61p by 9.
(11) What number is the Roman numeral L?
(12) Write the missing signs,,$+- \times$ or $\div$ in place of $\boldsymbol{\Delta}$.


C
(1) Find the whole amount of money when
a $\frac{2}{3}$ is 30 p
a
45p
b $\frac{5}{8}$ is 40 p.
b $\quad 64 p$
2


The three marked points are three vertices of a square. Write the coordinates of the fourth vertex of the square.
( $\square, \square$ ) ( 1, 2)
(3) Continue this sequence
$32,24,16,8,0$, $\qquad$
$-8$ $\qquad$
(4) It takes Alicia 75 minutes to get to school. At what time must she leave home to arrive at school at 8:30 a.m.? $\qquad$
(5) In which of these letters are there two pairs of parallel lines?

| $F$ | $M$ | $N$ | $W$ | $X$ | $Z$ |
| :--- | :--- | :--- | :--- | :--- | :--- |

(6) a How many 500 ml water bottles can be filled from 51 ?
a 10
b How many 50 ml bottles can be filled from 51 ?
b 100
(7) When a number is divided by 8 the answer is 6 remainder 6 . What is the number?

8 Find the missing numbers in this sequence.
1.6, 1.4, 1.2, $\square$,
1.0
0.8
(9) Name
a the acute-angled triangle
a Z
b the right-angled triangle
b X
c the obtuse-angled triangle.
c $Y$


10 Joe had $£ 1.80$ and Leah had half as much as Joe. How much had they altogether?
£2.70
(11) Find the cost of 90 g of salt at 40 p for 20 g .
£1.80
(12) What is the value of

| a the largest of these amounts $a € 10$ <br> $b$ the smallest of these amounts? $b € 8$ <br> $\frac{2}{3}$ of $€ 12$ $\frac{3}{4}$ of $€ 12$ | $\frac{5}{6}$ of $€ 12$ |
| :--- | :--- |

$a € 10$
b € 8
(1) $2.9=\square$ tenths 29 tenths
(2) $49+63=$ 112
(3) $6090 \div 3=$
(4) $\frac{1}{2}=\frac{x}{16}$. Find $x$.
(5) $(8 \times 5)+(3 \times 7)=$
(6) $10 m-5.5 m=\square m$
(7) $84-57=$
(8) $3 \frac{3}{4} \mathrm{~km}+300 \mathrm{~m}=\square \mathrm{km} \square \mathrm{m}$
(9) From 10:20 a.m. to 12:25 p.m.
$=\quad \mathrm{h} \quad \mathrm{min}$
10 Round 109.7 to the nearest whole number.
(11) $(30 \div 5)+(18 \div 6)=$ 9
(12) 10 flowers cost $£ 1.50$. Find the cost of one flower.

## B

(1) Write 9 km 700 m to the nearest kilometre.
(2) By how many centimetres is 2.4 cm less than 6 cm ?
(3) What fraction of 42 is 7 ?

## Answer

(4) What must be added to $£ 3.66$ to make $£ 4.50$ ?
(5) By how many is 25 minus 6 less than 25 plus 6?
(6) $\begin{array}{r}x y \\ 37.7\end{array}$

How many times greater is the 7 marked $x$ than the 7 marked $y$ ?10
(7) Increase $£ 2.46$ by $£ 1.26$.
(8) Find the cost of 20 cm of rope at £2.00 per metre.
£3.72

9 Subtract $\frac{1}{2}$ of $£ 24$ from $\frac{3}{4}$ of $£ 28$.
£9
(10) What number is four less than zero? $\qquad$
(11) Which three coins are given in change from $£ 3$ after spending $£ 2.84$ ?
(12) Change $\frac{8}{10}$ to hundredths.

| $\frac{80}{100}$ |
| ---: |

## C

## Answer

1


Find the difference in grams between the masses shown by pointers $x$ and $y$.
(2) A thermometer shows $-3^{\circ} \mathrm{C}$. The temperature then falls 2 degrees lower. What is the temperature now?

3


Name two lines in the rhombus which are perpendicular to each other.
(4) After using shampoo from a bottle holding 31300 ml only $2 \frac{3}{4} \mathrm{l}$ remained. How many ml had been used?
(5) Find the total cost of four magazines at $£ 2.25$ each and three newspapers at $£ 1.50$ each.

6

| $f$ |
| :---: |
| 70.00 |
| 25.00 |
| 18.00 |

Find the change from $£ 200$ after paying these amounts.
£87

7 Find the total length of the two lines in millimetres.

122 mm

(8) Rosa arrived home at 9:50 p.m. after travelling for $2 \frac{1}{4}$ hours. At what time did she start her journey?

7:35 p.m.
(9) 10 boxes of cereal have a mass of 3 kg . Find the mass in grams of one box.

10 The bus fare to the swimming pool is $£ 1.80$ and children travel for half price. Find the total bus fare for two adults and two children.
$£ 5.40$
(11) A square has a perimeter of 1 m 60 cm . Find the length of one side in centimetres.

40 cm
(12) Lucille spent two-thirds of her savings when she bought a phone for $£ 50$. How much had she saved before the purchase?
(1) $19.4 \mathrm{~cm}=\square \mathrm{mm}$ 194mm
(2) $(18+7)-(6+6)=$
(3) $(4 \times 1000)+(8 \times 100)+(9 \times 1)=$
(4) $£ 4.00-£ 3.24=\square p$
(5) Write 4 l 500 ml to the nearest l .
(6) $£ 1.32 \div 6=\square$
(7) Write $\frac{4}{5}$ as a decimal.
(8) $\frac{1}{3}=\frac{a}{12}=\frac{b}{18}$
(9) $120 \mathrm{~g}+\square \mathrm{g}=\frac{1}{2} \mathrm{~kg}$
(10 $9.3 \mathrm{~cm}+6.8 \mathrm{~cm}=$
(11) $28+25+\square=74$
(12) Five paper bags cost $£ 1.10$. One bag costs $\quad$ p.

## B

(1) Multiply 4.3 by 10 .

## Answer

(2) 18 cm divided by $10=\square \mathrm{cm}$ 1.8 cm
(3) Write the following times in the 24-hour clock format.
a 8:00 a.m.
a $08: 00$
b 8:00 p.m.
b 20:00
(4) $10+2999=$
3009
$95 p$ From $£ 4$ take the
$£ 1.40$ and $£ 1.65$.

95p
(6) Three batteries cost $£ 2.25$.

Find the cost of one battery.
75p
(7) How many 50 cm lengths can be cut from 18 m ?
(8) What is the cost of $3 \mathrm{~kg} \mathrm{100g}$ if 1 kg costs $£ 1$ ?
(9) What is the difference in ml between 21700 ml and 2580 ml ?

120 ml
(10) $\frac{9}{10}$ of a sum of money is $£ 2.70$.

Find the sum of money.
$£ 3.00$
(11) What number is represented by XLIV? $\qquad$
(12) Share $£ 6$ equally among eight children. How much does each child receive?
(1)


How many more children chose green than blue as their favourite colour? 5
(2) $y \times 10=320$. What is the value of $y$ ? $\qquad$ 32
(3) Harry's brother gave him $28 p$ to make his money up to $£ 3.15$.

How much had Harry at first?
£2.87
(4) Write $\frac{1}{2}$ as a decimal fraction.
(5) 1 m of carpet costs $£ 3.20$.

Find the cost of $1 \frac{1}{4} \mathrm{~m}$.
(6) A $2 p$ coin is 1.8 mm thick.

Find the height in millimetres of a pile of
a ten 2 ps
b one hundred 2ps.
a
b $\quad 180 \mathrm{~mm}$
$\qquad$
(7) Which of these numbers can be divided by 2,3 and 5 without a remainder?

$$
\begin{array}{lllll|}
\hline 15 & 18 & 20 & 24 & 30 \\
\hline
\end{array}
$$

(8) Megan received three 10ps, a 5 p and a 2 p in change from $£ 1$. How much had she spent?

63p
(9) The line $A B$ is drawn to scale and represents a distance of 2.5 m . What length is represented by 1 cm ?
0.5 m


10 Find the difference between $\frac{4}{5}$ of $£ 30$ and $\frac{5}{6}$ of $£ 30$.
£1
11


The mass of three parcels is shown on the dial. If they are of equal mass, write the mass in grams of one parcel.
(12) A school trip can be paid for in a single payment of $£ 27$ or by 20 weekly payments of $£ 1.50$. By how much is the total of the weekly payments greater than the amount of the single payment?
$£ 3.00$
(1)

(2) $50-(6 \times 7)=$
(3) $(19+8)-(6+7)=$
(4) $£ 1.09+68 p=f$
(5) Find $\frac{3}{4}$ of 28 kg .
(6) One envelope costs 19p.

Five envelopes cost $\square$ p.
(7) Round 0.4 to the nearest whole number.
(8) $1 \frac{1}{4} \mathrm{~kg}-700 \mathrm{~g}=\square \mathrm{g}$
(9) $£ 1.49+£ 1.49+£ 1.49=$
(10) $68 \div 7=$

$£ 4.47$
$9 r$ 5
(11) $0.6+1.8+0.5=$
(12 $0.1 \mathrm{~m}=\square \mathrm{cm}$

## B

## Answer

(1) Write $\frac{6}{10}+\frac{8}{100}$ as a decimal fraction. $\qquad$
(2) Multiply 6 by 47 . $\qquad$
3 How many centimetres are there in 1.8 m ?

180 cm
(4) Change these clock times from the 24-hour format to the 12-hour format. Use a.m. or p.m.
a 06:00
a 6:00 a.m.
b 19:00
b 7:00 p.m.
$6{ }^{\frac{1}{2}} \mathrm{~kg}$
(5) Write 6 kg 650 g to the nearest $\frac{1}{2} \mathrm{~kg}$. $\qquad$
(6) Subtract 0.03 from a whole one. Write the answer as a decimal fraction.
(7) By how many millimetres is 10.0 cm greater than 7.9 cm ?

21mm
(8) Find the cost of 12 sweets
if two sweets cost 5p.
9 Find the difference between 30 multiplied by 10 and 30 divided by 10 .297
(10) By how many grams is 5 times 250 g less than 2 kg ?
11) 340.4 How many times larger is the 4 marked $x$ than the 4 marked $y$ ?
(12) How much greater is $\frac{7}{8}$ than $\frac{3}{4}$ ?

C

## Answer

(1)


Write as a decimal fraction the part of the whole square which is
a shaded
b unshaded.
a 0.21
b 0.79
(2) How much less than $£ 6$ is the sum of $£ 1.85$ and $£ 3.45$ ?
(3) If $4 \frac{1}{2} \mathrm{~m}$ of string is divided into 25 cm lengths, how many lengths will there be?
(4) How many hundredths are equal in value to
a 0.4
b 0.9 ?
a 40 hundredths
b 90 hundredths
(5) A motor cyclist drove 84 km in the morning and 143 km in the afternoon. How much further did they travel to drive 250km?
(6) Clock A shows the time that Jake left home and clock B shows the time he returned. How many hours and minutes was he away?

$$
5 h \quad 5 \min
$$


(7) How many parcels each with a mass of 100 g will together have a mass of $3 \frac{1}{2} \mathrm{~kg}$ ?
(8) By how many twelfths is $\frac{3}{4}$
greater than $\frac{2}{3}$ ?


9 Find the change from a $£ 10$ note after buying six scarves costing $£ 1.25$ each.
(10) Yasmin's sister pays $\frac{4}{5}$ of the cost of a bicycle. Yasmin pays the remainder. The cost of the bicycle is $£ 70$. How much does each pay?

Yasmin $£ 14$
Sister $£ 56$
(11) 200 g of pasta costs 80 p . Find the cost of $1 \frac{1}{2} \mathrm{~kg}$.
$£ 6.00$

The three marked points are three vertices of a square. Write the coordinates of the fourth vertex of the square.
( $\square, \square$ )
$(3$,
$0)$
(1) $10.0+0.2+0.05=$
(2) $£ 1.60 \div 4=$
(3) $0.47=\square$ hundredths
(4) $(0 \times 9)+8=$
(5) $(42-5)+(21-4)=$
(6) $250+350+400=$
(7) Round 5.5 to the nearest whole number.
(8) Find $\frac{2}{3}$ of 27 .
(9) $2 \frac{1}{4} \mathrm{~min}=\square \mathrm{s}$
(10) $£ 6.09+\square=£ 8.00$
(11) $(81 \div 9)-(24 \div 3)=$
(12) $10000-100=$

## B

(1) Write the total of $20, \frac{3}{10}$ and $\frac{9}{100}$ as a decimal.
20.39
(2) Write these times using the 24-hour format.
a 3:57 a.m.
a $03: 57$
b 2:20 p.m.
b $14: 20$
(3) Write as a decimal the number that is 100 times smaller than 6 .

## Answer

9900

4 Multiply the sum of 7 and 5 by 10.
(5) From $£ 2$ take the total of 58p, $42 p$ and $36 p$.

64p
( 6 Decrease 10 cm by 28 mm . Give the answer in centimetres.
7.2 cm
(7) Write 31800 ml to the nearest $\frac{1}{2} \mathrm{l}$.

8 How many centimetres in a 3.6 m
b 2.25 m ?
(9) Find the cost of 750 ml if $\frac{1}{2} \mathrm{l}$ costs $£ 0.74$.
£1.11
(10) Divide the product of 14 and 9 by 6 . $\qquad$
(11) Arrange these digits to make the largest possible odd number.
$\begin{array}{lllll}4 & 0 & 9 & 1\end{array}$
12 How many hundredths are there in
a $\frac{1}{2}$
b $\frac{1}{4}$
c $\frac{3}{4}$ ?


1 What decimal fraction of $£ 1$ is
a 10p
a $£ 0.1$
b $1 p$ ?
b $£ 0.01$
(2) Which of these dotted lines is not a line of reflective symmetry?

C

(3) Max bought a toy car for $£ 1.50$ and a book for $£ 1.99$. How much change did he receive from a $£ 5$ note? $£ 1.51$

4

a Find in metres the perimeter of the field. a
a 500m
b How many times round the field is equal to 3 km ?
b 6
(5) The train was due to depart at 3:45 p.m. It didn't leave until 16:20. How long was it delayed? $35 m i n$

6


The dial shows the mass of a parcel in kilograms and grams. How many grams less than $3 \frac{1}{2} \mathrm{~kg}$ is the mass of the parcel?
(7) After spending one-quarter of his money, Thomas had 54p left. How much had he at first?

$$
72 p
$$

8 Find the total cost of two packets of popcorn costing 35p each and six lollies costing 10p each.
£1.30
(9) There are 163 boys at a sports day and there are 37 more girls than boys. How many children altogether?
10 Put a decimal point in each of the numbers so that the value of the 8 is 8 units.
a 4386
a 438.6
b 2891
b 28.91
(11) Katie has 17p and Emma has 25p.

How much must Emma give
Katie so that they each
have the same amount? $\qquad$
$12 \frac{3}{8}$ of a class of 24 children do not own a pet.
a What fraction of the class own a pet?
a $\frac{5}{8}$
b How many children own a pet?
(1) Write as a decimal fraction a 17 hundredths
a 0.17
b 6 hundredths.
b 0.06
2 $(58+5)-(4+9)=$
(3) $1 \frac{3}{4} \mathrm{~min}=\square \mathrm{s}$
(4) $80+6+8000+\square=8286$
(5) $7 \longdiv { 5 3 }$
(6) $0.4 \times 100=$
(7) Find $\frac{9}{10}$ of 80 .
( $83050 \mathrm{~g}=\mathrm{kg} \square \mathrm{g}$
(9) $£ 1.00$ - twenty-eight $2 p s=\square p$
(10) $12 \times 12=$
(11) $(7 \times 6)+(6 \times 3)=$
(12) $28 p \times 7=f$

## $£ 1.96$

$\qquad$
105 s
200
$7 r \quad 4$
$\square 40$

- 72
$3 \mathrm{~kg} \quad 50 \mathrm{~g}$
44p
144
60


## Answer

(1) Write 4 l 150 ml to the nearest $\frac{1}{2} \mathrm{l}$.

4l
(2) The product of two numbers is 72 . One of the numbers is 6 . What is the other number?12
(3) Increase 23 by 18 and multiply the answer by 10 .410
(4) Find the difference between 14 plus 9 and 14 minus 9 .
(5) How much less than $£ 1$ is the sum of $18 p$ and 39 p?
(6) Divide the total of 19 and 17 by 4 . 9
(7) Write as a decimal fraction of a metre
a 20 cm
b 35 cm .

| a | 0.2 m |
| :--- | :--- |
| b | 0.35 m |

(8) Add the largest of these decimals to the smallest.

> | 1.20 | 0.12 | 1.02 | 0.21 |
| :--- | :--- | :--- | :--- |

(9) Write as a decimal the number which is 10 times smaller than 8.8.
(10) Write each of these fractions as an equivalent one with the denominator 4.
a $\frac{9}{12}$
a $\frac{3}{4}$
b $\frac{6}{8}$
b $\frac{3}{4}$
(11) Find the cost of $3 \frac{1}{4} \mathrm{~kg}$ if 1 kg costs 16 p . 52p
(12) Write as decimals the next two numbers in this sequence.
1000, 100, 10, 1, $\quad$, $0.1 \quad 0.01$

C
(1) What decimal fraction of $£ 1$ is
a $2 p$
a $£ 0.02$
b 20p
b $£ 0.2$
c 50p?
c $£ 0.5$
(2) Chloe is 1.35 m tall and Joseph is 8 cm smaller. What is Joseph's height in centimetres?

## 127 cm

(3) How many glasses each holding $\frac{1}{4}$ l can be filled from a jug holding $6 \frac{1}{2} l$ ?

4


A square has vertices at $(4,1)$, $(2,1),(2,3)$ and $(x, y)$. What are the values of $x$ and $y$ ?
( 4, 3)
5 How many centimetres less
than $\frac{3}{4} \mathrm{~m}$ is 0.62 m ?
(6) A supermarket sold one hundred pastries at $12 p$ each and twenty at $9 p$ each. What was the total value of the pastries?
£13.80
7 Louise uses 50 g of cocoa each day. How many days will it take her to use $\frac{3}{4} \mathrm{~kg}$ ?

8 How many grams heavier is box $Y$ than box $X$ ?

650 g


9

| Date of birth |  | By how many |  |
| :--- | :--- | :--- | :---: |
| months is |  |  |  |

$\qquad$
b Sanjay younger than Leo?
b


10 Multiplying the Roman numeral V by X gives which Roman numeral answer? $\qquad$ L
11) Akta's T-shirt cost $£ 12.70$ and Frankie's cost $£ 11.85$. Find a the difference in price a 85p
b the total cost of the T-shirts.
b $£ 24.55$
121 cm on a plan represents 1 m . What does 1 mm on the plan represent
a in centimetres
a 10 cm
b in millimetres?
b $\quad 100 \mathrm{~mm}$
(1) $500 \mathrm{~g} \times 10=\square \mathrm{kg}$

5 kg
(2) $(36-7)-(32-8)=$
(3) $1000 p=f$
(4) $\mathrm{f} \square+62 p=£ 3.00$
(5) Find the missing number.
$9 \longdiv { 6 } r 2$
6 Write 243 hundredths as a decimal.
(7) $(10 \times 5)-(4 \times 7)=$
(8) $\frac{1}{10}$ of $1 \mathrm{~min}=\mathrm{s}$
(9) $\frac{5}{8}$ of $64 \mathrm{~km}=$

1010 hairbands cost 19p. 100 hairbands cost $f$
£1.90
(11) Round 17.6 to the nearest whole number.

12 $9989+12=$
10001

## B

## Answer

(1) Continue this sequence, counting back in threes.
10, 7, 4, 1, $\qquad$
(2) Make each of these numbers 10 times smaller.
a 29
a 2.9
b 1.7
b 0.17
(3) Write quarter to five in the afternoon in the 24-hour format.
(4) How much more than 50 p is the sum of $8 p, 18 p$ and $28 p$ ?

4p
(5) Subtract 9 from the total of 53 and 47. 91
(6) $\frac{3}{8}$ of a number is 9 .

What is the number?
(7) Write the missing numbers.
a $\frac{25}{100}=\frac{1}{\square}$
b $\frac{15}{20}=\frac{\square}{4}$
a 4 b 3
3
(8) What is the change from $£ 5$ after spending $£ 1.36$ and $£ 2.40$ ?
£1.24
9 If 10 markers cost $£ 5.20$, what will be the cost of
a one
a
52p
b seven?
b $£ 3.64$
(10) What decimal is the arrow pointing to?
0.6

(11) 1 l costs 60 p . Find the cost of $5 \frac{1}{4} \mathrm{l}$.
£3.15
(12) If fudge costs 80 p for 50 g , what is the cost of $\frac{3}{4} \mathrm{~kg}$ ?
£12.00

## Answer

(1) Find the total of 3.8 m and 0.5 m a in centimetres
b in millimetres.
$\begin{array}{lr}\text { a } & 430 \mathrm{~cm} \\ \text { b } & 4300 \mathrm{~mm}\end{array}$
2

(3) Navi saved 50p each week for a whole year. How much did she save altogether?
£26
(4) Subtract XIV from $C$ and give the answer using Roman numerals.
(5) Which of these decimals is equal to
a $\frac{55}{100}$
a 0.55
b $\frac{2}{100}$ ?
b 0.02

> | 5.5 | 0.2 | 0.55 | 0.02 |
| :--- | :--- | :--- | :--- |

LXXXVI

6 Name the three coins given in change from $£ 4$ after spending $£ 3.77$.

20p 2p 1p
(7) What remains from a 10 m length of fabric after using 3.3 m and 2.8 m ? 3.9 m

8


Each side of this shape is 0.7 cm long. Find the perimeter of the shape in centimetres.

7 cm
(9) After spending 49p and losing $£ 1.36$ Maisy has 15 p left. How much had she at first?
£2.00
10


12:22 p.m.

11 Find the difference between $\frac{1}{10}$ of 7000 and $\frac{1}{100}$ of 7000 .
(12) A school trip will cost Ryan $£ 10.80$.

He has made eight weekly payments of $£ 1.20$. How much has he yet to pay?
(1) $£ 2.26+£ 1.87=$
$£ 4.13$
4 m
(3) $(35 \div 7) \times(30 \div 6)=$
(4) $3 \mathrm{l} 300 \mathrm{ml}-\frac{1}{2} \mathrm{l}=\square \mathrm{l} \square \mathrm{ml}$
(5) $135 \mathrm{~min}=\square \mathrm{h} \square \mathrm{min}$
(6) $45 p+29 p+\square p=£ 1$
(7) $(8+56)-(15+9)=$
(8) $0.75 \mathrm{~m} \times 100=$
(9) $(40 \div 8) \times 7=$
(10) $2 \mathrm{~kg} 750 \mathrm{~g}+900 \mathrm{~g}=\square \mathrm{kg} \square \mathrm{g}$
(11) a $\frac{1}{4} \mathrm{~km}=\square \mathrm{m}$
b $\frac{3}{4} \mathrm{~km}=\square \mathrm{m}$
(12) Find $\frac{5}{6}$ of 30 l .

B

## Answer

(1) Find the product of 7 and 18.

2 Find the number which is 100 times smaller than
a 240
a 2.4
b 37.
b 0.37
(3) Write as centimetres
a 3.25 m
b 4.06 m .
(4) How many grams more than $\frac{1}{2} \mathrm{~kg}$ is the sum of 280 g and 270 g ?
a $\quad 325 \mathrm{~cm}$
b
406 cm

5 What must be added to 39 to make 57?18
(6) Decrease 43 by 16 and multiply the answer by 10 .
(7) From the sum of $£ 1.17$ and £1.33 subtract 60p.
£1.90
8 Find the remainder when 113 is divided by 6 .

5
(9) Write as a decimal fraction of a kilogram
a 500 g
b 100 g .
$\begin{array}{ll}\mathrm{a} & 0.5 \mathrm{~kg} \\ \mathrm{~b} & 0.1 \mathrm{~kg}\end{array}$
10 One pencil costs 9p. Find the cost of 200 pencils.
£18.00
(11) What is the perimeter of a rectangle 7 m long and $6 \frac{1}{2} \mathrm{~m}$ wide?

27m
12 How many newspapers each costing 40 p can be bought for $£ 8.00$ ?

C
Answer
(1) Which two clocks show times that are ten minutes apart?

(2) How many 2 ps have the same value as a twelve 5ps
a
30 2ps
b three 50ps?
b $\quad 75$ 2ps
(3) Write all the numbers between 48 and 68 which can be divided by 7 without a remainder.

49, 56, 63
(4) 10 packets of rice have a mass of $1 \frac{1}{2} \mathrm{~kg}$. Find the mass in grams of
a one packet
b five packets.


5 Which of these dotted lines is not a line of reflective symmetry?


6 Kathryn's sister gave her $£ 1.45$ to add to her savings and her father gave her $£ 2.70$. She then had $£ 5$. How much had she at first?

85p
(7) Scooters Scooters are reduced £18 by 10 p per $£ 1$ off the original price. What is the new price?
£16.20
8 There are 186 pages in a book. Liam read 64 pages and then 56 pages. How many more pages has he to read? 66
(9) Multiply the largest of these numbers by the smallest.

$$
\begin{array}{lllll|}
\hline 10.0 & 1.04 & 1.96 & 1.11 & 0.99 \\
\hline
\end{array}
$$

(10) In a school bus of 32 children $\frac{3}{8}$ of them are 10 years old, $\frac{1}{2}$ are 9 and the rest are 8 years old.
a What fraction of the children are 8?
a $\frac{1}{8}$
b How many children are 8?
b 4
11 A website had 70 visitors each hour for 12 hours. How many visitors in total?
(12) 3 kg of glitter cost $£ 18.00$.

Find the cost of
a 500 g
a $£ 3$
b 750g.
b $£ 4.50$
(1) $290 \mathrm{~cm}=\square \mathrm{m}$
2. $(82-4)+(18-9)=$
(3) $(17 \times 3)+6=$
(4) $\frac{28}{4}=\square$ whole ones
(5) One balloon costs $£ 0.07$. 100 balloons cost $£$ £7.00
(6) $346+78=$
(7) $\frac{1}{10}$ of $9 \mathrm{~km}=\square \mathrm{m}$
(8) $5 \longdiv { £ 1 0 . 1 0 }$
(9) £2.00-twenty-five 5 ps =
(10) $9 \times 12=$
(11) Write $£ 8.84$ a to the nearest 10 p $b$ to the nearest $f$.
(12) $£ 10.00 \div 8=$
2.9 m
87
$\square 57$7
(1)


How many small squares are there in $\frac{7}{10}$ of this diagram?
(2) Which of these numbers will divide by 2,5 and 10 without a remainder?

## 765884670

(3) By putting in a decimal point make a the 5 in 2056 equal to five-tenths b the 7 in 1870 equal to seven-hundredths.
(4) A $1 p$ coin has a mass of 3.56 g . Find the mass of
a 100 coins
b 50 coins.
(5) $\frac{5}{8}$ of a sum of money is $£ 1.10$. What is the whole amount?
(6) How many glasses each holding 150 ml can be filled from a bottle holding $1 \frac{1}{2}$ l?

7


This is a map of a park. What is the perimeter of the park in kilometres?
a 20.56
b 1.870
a
356 g
b 178 g
b

## $£ 1.76$

## Answer

(1) Write as litres and millilitres.
a 3457 ml
b 4070 ml


2 Find the difference between $(15+15+15)$ and $(4 \times 15)$.

15
(3) 52 plus 70 minus 32 . 90
(4) Divide the total of 29 and 27 by 8 .
(5) Subtract 6 times $14 p$ from $£ 1$.

6 How much greater is 7 multiplied by 9 than 7 plus 9 ?

7 Find in centimetres the perimeter of a triangle having equal sides each measuring 48mm.
14.4 cm
(8) How many hours and minutes from 11:40 to 18:10?

6h 30min
(9) Write as a decimal fraction.
a $\frac{1}{4}$
a 0.25
b $\frac{3}{4}$
b 0.75
(10) Which of these decimals is the largest?

$$
\begin{array}{lllll}
0.3 & 0.15 & 0.09 & 1.1 & 0.99
\end{array}
$$

(11) If 10 cost $£ 2.70$, what is the cost of one?
(12) Find the cost of 300 g if $\frac{1}{2} \mathrm{~kg}$ costs 30p. .
$\qquad$
$\qquad$
(8) Which two of these amounts when added together equal $£ 7$ ?

| $£ 3.73$ | $£ 3.54$ | $£ 3.37$ | $£ 3.36$ | $£ 3.63$ |
| :--- | :--- | :--- | :--- | :--- |

$£ 3.37 £ 3.63$
(9) Sophia and Olivia shared 60p so that Olivia had 10p more than Sophia. How much did Sophia have?

10


Write as a decimal fraction the part of the circle which is

| a shaded | a 0.6 |
| :--- | :--- |
| b unshaded. | b 0.4 |

11 The length of a washing line is 1.75 m . Write the length of a line 4 times as long.

## 7 m

12 How much is saved when buying 10 large tins rather than 20 small tins?

## Pet food

large tins ( 340 g ) 67p each small tins (170g) 10 for $£ 3.50$

## Answer

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 - $\mathbf{1 0}$ minutes.
(1) Write the sum of $£ 0.44, £ 0.56$ and $£ 1.55$ to the nearest 10 p.
(2)


A square has vertices at
$(3,0),(3,3),(0,0)$ and $(x, y)$ What are the values of $x$ and $y$ ?
(3) Round 29.5 to the nearest whole number.
(4) Add LIX to XLI and write the answer using Roman numerals.
(5) Make 306 one hundred times smaller.
(6) Write as a decimal the total of $20, \frac{8}{10}$ and $\frac{19}{100}$.
(7) Subtract $\frac{2}{9}$ of 27 from $\frac{3}{5}$ of 45 .

8


Clock A is 10 minutes fast.
How many minutes slow is clock $B$ ?

9 By how many metres is 648 m less than $\frac{3}{4} \mathrm{~km}$ ? $\qquad$
10 Write the decimal fraction which is half way between 0.4 and 0.38 . $\qquad$
11) This reading is taken from a dial in a car. 8999.4

It shows the number of kilometres travelled. What will be the reading after travelling a further 700 m ? $\qquad$ 9000.1 km
(12) If one poster costs $£ 0.44$ what will be the cost of 100 ?
£44.00
13 Find the cost of $4 \frac{3}{4} \mathrm{~kg}$ at 40 p per kilogram. £1.90
14. By how many sixths is $\frac{1}{2}$ less than $\frac{2}{3}$ ?
(15) Which three coins were given in change from $£ 3$ after spending $£ 1.28$ and $£ 1.56$ ?
$10 p, 5 p, 1 p$
16 $3 \frac{1}{2} \mathrm{l}+900 \mathrm{ml}+600 \mathrm{ml}=\square \mathrm{l}$ $\qquad$

17

| 06 | 14 |
| :--- | :--- |

V

W

X

Y
Z
(18) How many grams more than $\frac{1}{2} \mathrm{~kg}$ is the sum of 334 g and 286 g ? $\qquad$
(19) 50 cm of tape cost 28 p . Find the cost of 1.25 m . $\qquad$
20


Find in centimetres the perimeter of the shaded shape.

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.


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(1)


How many less than six thousand is the number shown on the abacus?
(2) $4 \mathrm{~km} 720 \mathrm{~m}=\square \mathrm{m}$
(3) $35 p \times 10=f$
(4) $\frac{1}{2} \mathrm{l}-340 \mathrm{ml}=\square \mathrm{ml}$
(5) $50 p+50 p+50 p+35 p=f$
(6) $23+9+18=$
(7) $2 \mathrm{~h} 25 \mathrm{~min}=\square \mathrm{min}$
(8) $\mathrm{f} 5.70=\square 10 \mathrm{ps}$
(9) $1 \frac{1}{2} \mathrm{~kg}-\square \mathrm{g}=650 \mathrm{~g}$
(10) $\frac{3}{4}+\frac{3}{4}+\frac{2}{4}=$
(11) $32.4 \mathrm{~cm}=\square \mathrm{mm}$
(12) $\frac{3}{4}$ of $8 \mathrm{l}=$

4720m
$£ 3.50$
160 ml
£1.85
50
145min
57 10ps
850 g
2
$324 m m$
61

## B

## Answer

(1) Write in digits four thousand two hundred and four.
(2) Subtract $£ 0.49$ from $£ 1.00$.
(3) Add 6, 8 and 10 and divide the answer by 3 .
(4) What is the cost of eight marshmallows at two for 17p?
(5) 50 cm is cut off a 3.5 m roll of wrapping paper. How many metres are left?
(6) Divide $£ 1.28$ by 8 .
(7) Change to 24 -hour clock times.
a 11:55 a.m.
a $11: 55$
b 1:40 p.m.
b 13:40
$3 m$
(8) Subtract $\frac{1}{3}$ of 30 p from $\frac{1}{2}$ of 30 p.
(9) How many millilitres in 0.51 ?

500 ml
(10) Which of these numbers can be divided by $2,3,6$ and 9 without a remainder?

$$
\begin{array}{llll}
12 & 24 & 33 & 18
\end{array}
$$

(11) What number is seven less than zero? $\qquad$
(12) Find the difference between
0.3 and 0.03 .

C

## Answer

(1) How much change from $£ 1.00$ after buying eight labels at $9 p$ each?
(2)


Angle $A B C$ is a right angle. How many degrees are there in the angle marked $y$ ?
(3) Tom had 40 merit points. Over the year he lost 16 but earned 24 . How many merit points had he then?
(4) What fraction of this strip is
a shaded
b unshaded?

(5) Write these times in digits using a.m. or p.m.
a $2 \frac{1}{4}$ hours after 10:00 a.m.
a 12:15 p.m.
b 7 hours after 7:00 p.m.
b 2:00 a.m.

6 Find, to the nearest kilometre, the total distance from Bant to Crock. $\qquad$ 39 km

(7) Grace saved $£ 1.25$ each week for eight weeks. How much did she save?
$£ 10.00$
8 How many grams less than 4 kg is the total mass of 10 parcels each having a mass of 345 g ?

9

| Gift tags |  |
| :---: | :---: |
| large | small |
| $6 p$ | $4 p$ |
| each | each |

Find the total cost of six large gift tags and six small gift tags. 60p
(10) Write the answer to 217-184 using Roman numerals.

## XXXIII

(11) By counting the squares find which of the shapes has
a the largest area
a Z
b the smallest area.
b Y

|  | I |  |  |  |  |  |  |  |  |  |  | z |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | x |  |  |  |  |  |  |  |  |  |  |  |  |
|  | - |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | - |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | - |  |

$12 \vee w$
8080

How many times larger is the 8 marked $v$ than the 8 marked $w$ ?
(1) $8+7000+\square=7808$
(2) $£ 6.00-£ 1.95=£$
(3) $46 \times 6=$
$£ 4.05$
(4) $7 \longdiv { 7 4 9 }$
(5) $85 p+\square p=£ 1.15$
(6) $5 \mathrm{~kg} 60 \mathrm{~g}=\square \mathrm{g}$
(7) $7 \mathrm{~cm}-1.5 \mathrm{~cm}=\square \mathrm{mm}$
(8) $£ 9.00 \div 100=\square p$
(9) $2.75 \mathrm{~m}=\square \mathrm{m} \square \mathrm{cm}$
(10) $\frac{4}{5}$ of $35 \mathrm{~kg}=$
(11) 200min $=\square \mathrm{h} \quad$ min
(12) $\frac{1}{4} \mathrm{~kg}+130 \mathrm{~g}+\square \mathrm{g}=\frac{1}{2} \mathrm{~kg}$

## B

## Answer

(1) Divide the sum of 53 and 65 by 2 .
(2) The change from $f 2.00$ was $43 p$. How much had been spent?
$£ 1.57$
(3) Find the product of 8 and 8 .
(4) 10 paintbrushes cost $£ 1.20$. Find the cost of one paintbrush.
$12 p$
(5) Write the next two numbers of this sequence.
$0.2,0.4,0.6,0.8$,
$\square$,
$\qquad$
(6) From $360^{\circ}$ subtract the sum of two right angles.
(7) How many kilometres and metres are equal to 1560 m ?

1 km 560 m
(8) Write $9 \frac{3}{8}$ to the nearest whole number.

9 Write these times using the 12-hour clock format. Use a.m. or p.m.
a $15: 45$
a $3: 45$ p.m.
b 00:15
b 12:15 a.m.

10 How many whole ones are equal to 36 quarters?
(11) How many tens have the same value as 5010?
(12) The sum of two numbers is 17 . The difference between them is 1 . What are the two numbers? 8 9
(1) Find the change from $£ 5$ after spending $£ 1.33$ and $£ 2.57$.
$£ 1.10$
(2) The temperature dropped from $0^{\circ} \mathrm{C}$ by five degrees and then rose two degrees. What is the temperature now?

$$
-3^{\circ} \mathrm{C}
$$

(3) Add the masses and divide by 3 .

(4) Grapes cost $£ 3.60$ per kilogram. What is the cost of $2 \mathrm{~kg} \mathrm{500g}$ ?
£9.00
(5) By counting the small squares find the two shapes which are equal in area. Name the two shapes.

(6) Isaac had 150 stickers. He put 15 stickers on each of eight pages in his album. How many stickers had he left?
rectangle triangle $\qquad$

7


This clock is 15 minutes fast. Write the correct time in digits using a.m. or p.m.

> 9:53 a.m.
(8) A pack of four pairs of socks can be bought for $£ 5.12$.
Find the cost of one pair.
$£ 1.28$
(9) At a football match there were 12498 spectators. Write the number of spectators
a to the nearest ten
a 12500
b to the nearest hundred.
b 12500

10


A square has vertices at $(3,0),(4,2),(2,3)$ and $(x, y)$. What are the values of $x$ and $y$ ?
(11) Share 80p between Amy and Katy so that Amy has 20p more than Katy.
( 1, 1)

Amy 50p
Katy 30p
(12) There were 2.5 I of milk for four children. 100 ml were spilt and the remainder was divided equally. What was one share?
(1) $9999+9=$
(2) $25+26=11+$
(3) $368 \mathrm{~cm}=\square \mathrm{m}$
(4) $£ 1.17 \times 7=$
(5) $\mathrm{p} \times 10=£ 1.40$
(6) $\frac{4}{8}+\frac{1}{8}+\frac{3}{8}=$
(7) $6 \longdiv { £ 4 . 0 2 }$
(8) $5.7 \mathrm{l}=\square \mathrm{ml}$
(9) 4 weeks $=\square$ days
(10) $3.21 \times 100=$ 321
11) $\square 7=37-9$
(12. $1.7 \mathrm{~cm}+4.5 \mathrm{~cm}=\square \mathrm{mm}$

62 mm

## B

## Answer

(1) $£ 1.84 \times 10$.

Write the answer to the nearest $£ \mathrm{£} 18$
(2) Take two hundred from 22222.
(3) Write 600 m as a decimal fraction of 1 km .
0.6 km
(4) How many times larger is $£ 2.50$ than 25 p?
(5) Divide 912 by 4 .
(6) Write as a decimal fraction the difference between 0.1 and a half.
(7) How many days altogether in April and May?
(8) Write the next two numbers in this sequence.

$$
\begin{equation*}
8.0,8.5,9.0,9.5 \tag{array}
\end{equation*}
$$

9 By how many centimetres is
$\frac{1}{10} \mathrm{~m}$ longer than $\frac{1}{100} \mathrm{~m}$ ?
9 cm
(10) 200 ml cost 15 p . Find the cost of 11 .

75p
11 Find the difference in grams between
1.7 kg and 2.5 kg .

800 g
12 Write the missing signs,,$+- \times$ or $\div$ in place of $\triangle$ and $\mathbf{A}$.
6 - $3=9$ - 9


## Answer

(1)


How many must be added to the number shown on the abacus to make four thousand?

2


Each square represents one square centimetre. Count the squares to find the area of the shaded shape. $19 \mathrm{~cm}^{2}$
(3) Write the answer to 174-95 using Roman numerals.

LXXIX
(4) Holly wrote an answer of $£ 0.60$ instead of $£ 0.06$. By how many pence was her answer wrong?

54p
5
 Find the perimeter of the rectangle in millimetres.

180 mm
(6) In a school dining room there were 25 tables each with six places.
11 of the places were not used.
How many stayed for lunch?


The diagram shows the time that Charlotte spends at home and at school. What fraction of her time does she spend
a at home
b at school?


8 A charity collected thirty 20ps and twice as many 10 ps. How much did they collect altogether?
£12
9
 Write the mass shown by the pointer a in kilograms and grams a $2 \mathrm{~kg} \quad 800 \mathrm{~g}$
b in kilograms as a decimal.
b 2.8 kg

1057 children attend swimming lessons. There is a small class of nine children and two classes of equal numbers. How many children are there in each of the larger classes?

11 How many millilitres more does a bottle containing 2.5 I hold than the total contents of two bottles each holding 850 ml ?

## 800 ml

12 How much is saved on each sweet by buying 10 at a time?

| Sweets | $12 p$ each or 10 for $£ 1.10$ |
| :--- | :--- |

(1) $270 \mathrm{ml}+300 \mathrm{ml}=$
(2) $10000-100=$
$\qquad$
(3) $4.93 \mathrm{~m}=\square \mathrm{cm}$
(4) $\frac{7}{10}$ of $£ 1=\square \mathrm{p}$
(5) $3.93+0.07=$
(6) $6.06=\frac{\square}{100}$
(7. $0.7 \mathrm{~kg}+0.4 \mathrm{~kg}=\square \mathrm{kg} \square \mathrm{g}$
(8) $\frac{\square}{2}=9 \frac{1}{2}$
(9) $4^{2}=4 \times 4=$
(10) $£ 1.30 \div \square=10 p$
(11) From 11:25 a.m. to 12:45 p.m. $=\quad \min$

80 min
(12) $1 \mathrm{~kg} 700 \mathrm{~g} \times 5=\square \mathrm{kg}$
8.5 kg

B
Answer
(1) Write as a decimal.
a $3 \frac{1}{10}$
a 3.1
b $4 \frac{8}{10}$
(2) How many 5ps must be added to five 50 ps to make $£ 2.80$ ?
(3) Write 268 mm to the nearest centimetre.
b 4.8

65 ps

27 cm
(4) Which two of these fractions are of equal value?

| $\frac{2}{3}$ | $\frac{1}{4}$ | $\frac{4}{8}$ | $\frac{4}{6}$ | $\frac{3}{4}$ |
| :--- | :--- | :--- | :--- | :--- |

(5) $1 \frac{1}{4} \mathrm{l}$ of a 2 l bottle of lemonade was spilt. How many millilitres were left?
(6) Add LIX and XXXIV and write the answer using Roman numerals.


8


Find the total number of dots and divide by 4 . 5

9 The temperature rises by eight degrees from $-6^{\circ} \mathrm{C}$.
What is the new temperature?
10


Each square represents 1 square centimetre. Count the squares to find the area of the shaded shape.

$$
18 \mathrm{~cm}^{2}
$$

11 How much change from $£ 5$ after buying eight chocolate bars at 55 p each?

12 How far is it round a rectangular playground which is 75 m long and 60 m wide?
(1) $2.9=\square$ tenths
(2) $£ 4.07=\square p$
(3) $3 \mathrm{~h} 50 \mathrm{~min}=\square \mathrm{min}$
(4) $24 p \times 5=f$
f
£1.20
(5) $7 \times \square=43-8$
(6) $76 p+$ five $5 p s=f$ $£ 1.01$
(7) $(1000 \times 10)+(100 \times 5)+(10 \times 7)=$
10570
(8) $5.08 \mathrm{~m}=\square \mathrm{cm}$

508 cm
(9) Find $\frac{1}{2}$ of $3 \frac{1}{2}$. $1^{\frac{3}{4}}$
(10) $0.6 \mathrm{~kg}-\mathrm{g}=340 \mathrm{~g}$ 260g
(11) $3 \frac{3}{4} l=\square \square \mathrm{ml}$ $31 \quad 750 \mathrm{ml}$
(12 $11 p \times 100=f$ $£ 11.00$

## B

## Answer

(1) Find the missing number in this sequence.
1, 10, 100, $\quad, 10000$
1000
(2) Find the product of 10 and 45 . 450
(3) How many times greater than 0.1 is 10 ?
(4) What distance in kilometres and metres is twice as long as 4.8 km ?
9 km 600 m
(5) Divide 52 p exactly by 4 . 13p

6 Find the difference in pence between 15 10ps and 405 ps.

50p
(7) A taxi fare for a journey of 7 km cost 91p. How much was the charge per kilometre?
( Write to the nearest $\frac{1}{2} \mathrm{~kg}$.
a 1 kg 620 g
b 2 kg 390 g


9 Find the area of a rectangle 7 cm long and 3 cm wide. Give the unit of measurement. $\qquad$
(10) By how many pence is $\frac{1}{5}$ of $£ 3$ greater than $\frac{1}{6}$ of $f 3$ ?
(11) 58 cm divided by $10=\square \mathrm{mm}$ 58 mm
(12) Write as a decimal fraction of a kilogram the sum of $\frac{1}{4} \mathrm{~kg}$ and 450 g . 0.7 kg

## Answer

(1)


What decimal fraction must be added to the number shown on the abacus to equal 50 ?

2 What fraction of 28 kg is
a 7 kg
b 4 kg ?
a $\frac{1}{4}$
b $\frac{1}{7}$
(3)


By how many months is 18 February 2014 later than the given date?

8mth
(4) Write a quarter of a metre a in centimetres
b as a decimal fraction of a metre.
a
25 cm
b 0.25 m

5
X Line $X$ is 0.9 cm long. Write, in mm , the length of a line that is twice as long.

18 mm
(6) Which of these fractions is

a the largest
b the smallest?
a $\frac{5}{6}$
b $\frac{5}{10}$
(7) The temperature rises by 7 degrees from $-9^{\circ} \mathrm{C}$. What is the new temperature?

8


The perimeter of this regular hexagon is 7.2 cm . Find the length of one side
a in centimetres a
1.2 cm
b in millimetres. b $\qquad$ 12 mm

9 Find the value in pence of $x$ and $y \quad x \quad 27 p y \quad 45 p$

| Price <br> chart | mass | 100 g | 150 g | 200 g | 250 g | 300 g |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | cost | 18 p | $x$ | 36 p | $y$ | 54 p |

10


A square has vertices at
$(0,2),(1,3),(2,2)$
and $(x, y)$. What
are the values
of $x$ and $y$ ?
( 1, 1)
1)
(11) Add XVIII and XLII and write the answer using Roman numerals.

12 Alex takes four 5 ml spoonfuls of medicine each day. For how many days will 0.2 l last?
(1) $\square+6+9000+400=9456$
(2) $\frac{4}{5}=\square$ hundredths
(3) $£ 4.05-50 p=f$
(4) $24+24+24+24+24+24+24=$ $\qquad$
(5) $11600 \mathrm{ml} \div 8=\square \mathrm{ml}$
(6) $£ 3.60 \div 10=\square$
(7) $9.6 \mathrm{~cm}-15 \mathrm{~mm}=\square \mathrm{mm}$
(8) $£ 3.10=$ three 50 ps $+\square 20$ ps
(9) $3^{2}=3 \times 3=$
(10) $8 \mathrm{~km}-1700 \mathrm{~m}=\square \mathrm{km}$
(11) $\frac{3}{4} \mathrm{~kg}-260 \mathrm{~g}=\square \mathrm{g}$
(12) $\frac{5}{7}$ of $£ 63=$

## B

## Answer

(1) How many times greater is $£ 8$ than 8p?

2 Put these decimals in ascending order.

| 0.67 | 7.06 | 7.60 | 6.07 | 6.70 |
| :--- | :--- | :--- | :--- | :--- |

$0.67 \quad 6.07 \quad 6.70$ $7.06 \quad 7.60$
(3) Reduce 125 by 99 .
(4) How many hundreds are there in 10000?
(5) Multiply 55 p by 10 .

6 How many hours in 3 days?
(7) Write in $£ s$ the total of seven 5 ps, four 10 ps and nine 2 ps .
£0.93
(8) 500 g cost 28 p . Find the cost of $1 \frac{1}{2} \mathrm{~kg}$. $\qquad$
(9) Multiply 9.5 cm by 100 . Write the answer in metres.
(10) Write the sum of $4 \frac{7}{10}$ and $3 \frac{9}{10}$ as a decimal.
(11) $\frac{3}{4}$ of a number is 9 .

What is the number?
(12) A 4m length of material is cut into five equal pieces. Find the length in centimetres of one piece.

## Answer

(1) How much change from a 50p after buying four badges at $9 p$ each?
(2) Write as a decimal fraction the difference between $\frac{9}{10}$ and $\frac{99}{100}$.
(3) How many millilitres remain from $2 l$ of water after filling the three bottles?

50 ml


(4) 15 November was on a Wednesday. On which day of the week was 29 November?
(5)


Each square represents one square centimetre.
a Count the squares to find the area of the rectangle.
a $24 \mathrm{~cm}^{2}$
b Find its perimeter in centimetres.
b 20 cm
6 Write the number nearest to 99 that can be divided exactly by 8 . 96
(7) Cereal bars are 63p for a packet of six. Find the cost of two bars.

8

| Gabriela | 9 |
| :--- | :---: |
| Emily | 7 |
| Sam |  |
| Jessica | 6 |

These children scored a total of 32 marks. What was
Sam's score?10
(9) The length of Harry's pace is 50 cm .

How many paces does he take when walking 1 km ?
(10) Write the name of a triangle with all equal sides.

(11) Which two of the boxes together have a mass of 1.5 kg ?

(12) Find the value of $x . 6 \longdiv { x } \quad { } ^ { \frac { 1 } { x } 5 }$

Answer
a
16 tenths
b 160 hundredths $\frac{5}{16}$
(2) $\frac{11}{16}+\square=1$
(3) $23+25=\square \times 6$
(4) $0.78 \mathrm{~m}=\square \mathrm{cm}$
(5) $57 \div 3=$
(6) $£ 1.00-(23 p+38 p)=\square p$
(7) $(6 \times 6)-(3 \times 9)=$
( $8 \mathrm{f} 3.50 \times 8=£$
(9) $5.6 \mathrm{~cm}-38 \mathrm{~mm}=\square \mathrm{mm}$
(10) $5^{2}=5 \times 5=$
(11) 10 ice lollies cost $£ 2.50$. One will cost $\quad$ p.
(12) $1 \mathrm{~kg} 600 \mathrm{~g}+3 \mathrm{~kg} 800 \mathrm{~g}=\square \mathrm{kg}$

## B

Answer
(1) Write 864 cm to the nearest metre.

|  | 9 m |
| :--- | ---: |
| $£ 5.45$ |  |
|  |  |
| a | 3.4 cm |
| b | 1.8 cm |

4 Write each fraction as an equivalent one with the denominator 4.
a $\frac{15}{20}$
b $\frac{12}{16}$
a ${ }^{\frac{3}{4}} \quad b^{\frac{3}{4}}$ $\frac{3}{4}$
(5) Write as a decimal the total of 3 tens, 7 tenths and 8 hundredths.

6 Find the missing numbers in this sequence.
90, 81, $\square, \square, 54,45$
72
(7) $\frac{54}{6}=36 \div y$.

Find the value of $y$.
8 Find the difference between $£ 0.50$ and one-quarter of $£ 1$.
(9) What fraction of 10 is $1 \frac{1}{4}$ ?

10 Divide $£ 8.40$ by 10 and add $16 p$ to the answer.
£1.00
11 $3.6 \mathrm{~kg} \times 6$. Write the answer to the nearest kilogram.

22 kg
12 Find one-quarter of 10 m a in metres
a 2.5 m
b in centimetres.
b
250 cm

## Answer

(1)


Write the part of
the square which is shaded
a as a decimal fraction
b as a fraction in its lowest terms.
b $\frac{1}{4}$
(2) Which number other than 1 will divide exactly into each of these numbers?

| 28 | 42 | 35 | 14 |
| :--- | :--- | :--- | :--- |

3


Find the measurement in degrees of the angle marked $Y$.
(4) A litre of juice has a mass of 1 kg .

Find the mass in grams of
a 0.51
b $\frac{1}{4}$ l.
(5) What is the area of a corridor $2 \frac{1}{2} \mathrm{~m}$ wide and 20 m long? Give the unit of measurement.
$50 \mathrm{~m}^{2}$
6

|  | Timetable |  |
| :---: | :---: | :---: |
| leave <br> Borden | arrive <br> Notley |  |
| X | $17: 30$ | $18: 03$ |
| Y | $18: 30$ | $19: 03$ |
| Z | $19: 30$ | $20: 03$ |

Which bus
X, Y or Z
a arrives at
Notley at
7:03 p.m.
b leaves
Borden
at 7:30 p.m.?
b Z
a $Y$
a $\quad 500 \mathrm{~g}$
b 250 g
(7) 25 cm of ribbon cost 14 p . Find the cost per metre.

56p
(8) Alfie bought four yoghurts each costing 18p. Name the three coins he gave in exact payment.

50p 20p 2p
9 How many 250 ml bottles can be filled from $2 \frac{1}{2}$ l of milk?10

10 The chart shows the number of minutes Toby took to walk to school each day. Find the total number of minutes and divide it by the number of days.

8 min

| Monday | Tuesday | Wednesday | Thursday | Friday |
| :---: | :---: | :---: | :---: | :---: |
| 7 | 11 | 10 | 6 | 6 |

(11) What number is 5 less than 2 ?
(12) The diagram shows the lengths of the roads from Luca's to Hassan's house. Find the total distance in

| a kilometres | a | 5.7 km |  |
| :--- | :--- | :--- | ---: |
| b metres. | b | 5700 m |  |
|  | 1.6 km | 2.6 km | 1.5 km |
|  |  |  | Hassan |

(1) $39+67=$ 106
(2) $0.1+10+0.06=$ 10.16
(3) $2 \mathrm{~h}-28 \mathrm{~min}=\square \mathrm{min}$
(4) $500-(40 \times 9)=$
(5) $9 \mathrm{~cm} \div 10=\square \mathrm{mm}$
(6) $6^{2}=6 \times 6=$ $\qquad$
(7) $(9 \times 6)+(3 \times 8)=$
(8) $\mathrm{ml} \times 10=4 \mathrm{l}$
(9) $1.4 \mathrm{~kg}-850 \mathrm{~g}=\square \mathrm{g}$
(10) $£ 1-(8 p \times 6)=\square p$

52p
(11) $\frac{7}{8}$ of $£ 56=$
£49
(12) $6 \mathrm{~m} \div 4=\square \mathrm{cm}$

150 cm

B

## Answer

(1) Write to the nearest whole number.
a 8.5
a 9
b $11 \frac{5}{12}$
b 11
(2) Write 39 p as a decimal fraction of $£ 1 . £ 0.39$
(3) How many times can 0.2 be taken from 1? 5
(4) How many days in
a a year
a 365
b 366
(5) What sum of money is
equal to five times $88 p$ ?
$£ 4.40$
6 Which of these fractions is equal to $\frac{3}{4}$ ?

| $\frac{16}{20}$ | $\frac{15}{20}$ | $\frac{16}{24}$ | $\frac{12}{18}$ |
| :--- | :--- | :--- | :--- |

(7) Find the difference in grams
between $\frac{1}{2} \mathrm{~kg}$ and 0.3 kg .
200 g
(8) Multiply 8.33 m by 100 .

833m
(9) By how many centimetres is 2.46 m greater than 1.95 m ?

51 cm
(10) Add 8, 13, 10 and 9 and divide by 4 .
(11) By how many is the sum of 15 and 10 less than the product of 15 and 10 ?125
(12) Rearrange these digits to make the largest possible even number.

| 4 | 0 | 8 | 7 |
| :--- | :--- | :--- | :--- | :--- |

## Answer

(1) How many grams less than 5 kg is the total of 2.7 kg and 1.5 kg ?
(2) What 24-hour time is 15 minutes after 12:55?
(3) How many 7p sweets can be bought for $£ 2.10$ ?
(4) A The perimeter of this triangle is 75 mm . Find the length of the side $A B$.

6


Write the amount of liquid in this jug as
a a decimal fraction of $11 \quad$ a 0.71
b a fraction of 1 lin its lowest terms
b $\frac{7}{10} 1$
(7) The cost of $2 \frac{1}{2} \mathrm{~kg}$ of rice is $£ 5.50$. Find the cost of 500 g .
$£ 1.10$
8


Find the missing number.

9 Find the difference between Cl and XLVIII and write the answer using Roman numerals.

10
 Name this triangle by
a its angles
b its sides.
a acute
b equilateral

11


The readings show the number of kilometres travelled by a car before and after a journey. Find in kilometres the length of the journey.

## 3.2 km

(12) The chart shows the length and breadth of four rectangles. Which two of the rectangles have the same area? X Z

|  | W | X | Y | Z |
| :--- | :---: | :---: | :---: | :---: |
| length | 7 cm | 4 cm | 5 cm | 8 cm |
| breadth | $1 \frac{1}{2} \mathrm{~cm}$ | 3 cm | 2 cm | $1 \frac{1}{2} \mathrm{~cm}$ |

A

1) $\frac{1}{2} \mathrm{~m}=\mathrm{a} \square \mathrm{cm}$
b $\quad \mathrm{mm}$
(2) 21 thirds $=\square$ whole ones
(3) $50 p-\square p=21 p$
(4) $£ 8 \div 10=\square$
(5) Find 0.1 of 10 cm .
(6) $408 \div \square=6$
(7) $\square-99.25=0.75$
(8) $7^{2}=$
(9) $(8 p \times 8)+(4 p \times 9)=$
(10) $£ 0.78+£ 0.46=$
(11) $2.7 \mathrm{~km}-1900 \mathrm{~m}=\square \mathrm{m}$

12 $0.4 \mathrm{~m}-0.04 \mathrm{~m}=\square \mathrm{cm}$

## B

## Answer

(1) How many pence have the same value as
a $£ 0.1$
b $£ 0.9$ ?
a
10p
b $\qquad$
(2) Find in millilitres $\frac{1}{2}$ of 15 l .
(3) Two angles together make a right angle. One angle is $55^{\circ}$. How large is the other angle?
$35^{\circ}$
(4) Divide the sum of the digits from 1 to 6 inclusive by 3 .
(5) Write the time 35 minutes before 18:10 using the 24 -hour clock format.
(6) Subtract $1 \frac{3}{8}$ from 6 .

7 Find the difference in grams between $\frac{1}{2} \mathrm{~kg}$ and $\frac{3}{10} \mathrm{~kg}$.

8 How many balloons costing $6 p$ each can be bought for 84 p?
(9) $\frac{1}{4} \mathrm{l}$ costs 8 p . Find the cost of $2 \frac{1}{2} \mathrm{l}$.
(10) Change each of these fractions to hundredths.
a $\frac{1}{20}$
b $\frac{7}{20}$

(11) Write the missing numbers in this sequence.
$2,4,8, \square, \square, 64$ 16 32
(12) $\frac{5}{6}$ of a sum of money is $£ 35$. Find the whole amount.
£42

C

## Answer

(1) Find the difference in grams between the largest and the smallest of these masses.

| 300 g | 0.4 kg | $\frac{1}{2} \mathrm{~kg}$ | 1.1 kg |
| :--- | :--- | :--- | :--- |

(2) Find the total value of these coins.
£2.05


3
This clock is 7 minutes slow. How many minutes is it from the correct time to midnight? $\qquad$ 31min K, M
(5) 5 m of carpet costs $£ 3.00$.

Find the cost of
a 1 m
b 20 cm .
6 Through how many right angles does the hour hand of a clock turn in 24 hours?

Which of the lines are perpendicular to the line $X Y$ ? $\qquad$ ,
4

.


a 60p
b 12p


Each square represents 1 square centimetre.
a Count the squares to find the area of the rectangle.
b Find its perimeter in centimetres.
a $\quad 12 \mathrm{~cm}^{2}$
b $\quad 16 \mathrm{~cm}$
(8) What number is 9 less than 4?
$-5$
(9) A 20 m piece of wood is cut into 100 equal pieces. Find the length in centimetres of one piece.

20 cm
(10) In a sale, shoes were reduced by 12 p per $£ 1$. How much was paid for the shoes, which cost $£ 10$ before the sale?
$£ 8.80$
(11) In a library there were 158 non-fiction books and 132 fiction books. How many short of 350 books was the total?
(12) Write the letter of the shape that is
a a rhombus
a X
b a parallelogram.
b Z
w

Y
Y
(1) $£ 15.00 \div 100=\square p$
(2) $1.8 \mathrm{~kg}-900 \mathrm{~g}=\square \mathrm{g}$
(3) $47 \times 7=$
(4) $8^{2}=$
(5) $\frac{3}{10}$ of 1 hour $=\square$ min
(6) $180 \mathrm{ml} \times 100=\square \mathrm{l}$
(7) 6:30 p.m. to midnight $=\square \mathrm{h}$
(8) Five $5 p s+\square 10 p s=£ 3.65$
(9) $0.35 \times 6=$2.10
(10) $0.3+0.07+3.5=$ 3.87
(11 $3.05 \mathrm{~m}-0.5 \mathrm{~m}=\square \mathrm{cm}$
(12) $£ 4-\square p=£ 3.11$
(1) Complete this sequence. 950, 975, $\square, \square, 1050$
(2) Multiply 2.5 by 6 .
(3) How many times can $\frac{1}{12}$ be taken from a whole one?

Answer
4. Multiply XII by VIII and give the answer using Roman numerals.
(5) How many centimetres in $\frac{1}{10}$ of 6.2 m ?
(6) Divide 2 by 5 . Write the answer as a decimal fraction.
(7) Find the total distance in kilometres of $350 \mathrm{~m}, 900 \mathrm{~m}$ and $\frac{3}{4} \mathrm{~km}$.
(8) What fraction of $£ 3$ is 30 p?
(9) Reduce $£ 6$ by $£ 1.73$.

10 Find the cost of $2 l$, if 200 ml cost $8 p$.
(11) Write the fraction that lies midway between $\frac{3}{8}$ and $\frac{5}{8}$ in its lowest terms.
(12) The temperature dropped from $4^{\circ} \mathrm{C}$ to $-6^{\circ} \mathrm{C}$. By how many degrees did it fall?

C

## Answer

(1) How many 75 ml bottles can be filled from $7 \frac{1}{2}$ l?
(2) Find the length of a line 10 times the length of the line ST
a in centimetres
a
55 cm
b in metres.
b 0.55 m

(3) Write the next fraction in this sequence.
$\frac{1}{8}, \frac{1}{4}, \frac{3}{8}, \frac{1}{2}$,
(4)

a the date of the 3rd Monday in March
b the day of the week upon which 1 April falls.
a 21st
b Friday
(5) Biscuits cost 9p for two.

Find the cost of 18 .

## 81p

6

a obtuse $\qquad$
b scalene $\qquad$
(7) Find the perimeter of a rectangle 6 m long and $3 \frac{1}{2} \mathrm{~m}$ wide.

19m
(8) The mass of box $Y$ is half the mass of box $X$. Find in kilograms and grams the total mass of the two boxes.

1kg
950g

(9) Chloe and Jack shared $£ 5$ so that Jack had 50p less than Chloe.

How much did Jack have?
$£ 2.25$
10 The line $M N$ is drawn to a scale of 1 cm to 1 m . Write in metres and centimetres the length represented by the line MN.
$4 \mathrm{~m} \quad 30 \mathrm{~cm}$

11) Of the money Hanna receives each week she spends $\frac{3}{5}$ and saves the remainder, which is 20 p. How much money altogether does she receive each week?
12 A pack of 20 pins costs 40 p. Find the cost of
a one pin
a
$2 p$
b 10 packs of pins.
b $£ 4.00$
(1) $9000+\square+7+70=9777$ 700
(2) $3.01 \times 100=$
(3) $4.05 \div 9=$
(4) $(7 \times 7)=100-$
$\qquad$
(5) $(0.1$ of $£ 1)+(0.01$ of $£ 1)=\square p$
(6) $9^{2}=$
(7) $1 \frac{1}{3}+\frac{5}{6}=$
(8) $36 p+45 p+19 p=f$
(9) $\frac{7}{8}$ of $72=$
(10) $1.1 \mathrm{~km}-640 \mathrm{~m}=\square \mathrm{m}$

11 50 min +28 min $+\square \min =2 h$
(12) $£ 19 \div 5=$

## B

(1) Subtract 0.01 from 0.1 .
(2) How many thousands equal fifty hundreds?
(3) Find how many a centimetres
b millimetres there are in 0.7 m .
(4) $\frac{1}{2} \mathrm{~kg}$ costs 20 p . Find the cost of a 100 g
b 800 g .
(5) By how much is 99p less than twenty-four 5ps?
(6) Multiply $£ 5.09$ by 7 and write the answer to the nearest $f$.
(7) Write as a decimal fraction.
a $\frac{1}{5}$

8 Find the difference between $(4.0+6.0)$ and $(0.4+0.6)$.

9 Change 1050p to fs.
10 Add $6^{2}$ and $4^{2}$.
(11) Name
a the sixth month
b the ninth month of the year.

> a June
> b September
(12) How many pence are twenty-four 2 ps more than nine 5 ps ?

5 thousands
£36.00
a 0.2
b 0.02

## Answer

| a | 70 cm |
| :--- | ---: |
| b | 700 mm |

a 4p
b 32p

21p

9
£10.50
52

3p

## Answer

(1) Add 8.3 to 5.19 and write the answer to the nearest whole number.
(2)

(3) Which two of these fractions when added together equal
a a whole one
a $0.25 \quad 0.75$
b one-tenth?
b 0.01
0.09

| 0.49 | 0.01 | 0.25 | 0.09 | 0.75 |
| :--- | :--- | :--- | :--- | :--- |

(4) Find the difference between
a half of 18 and one-sixth of 30 .
(5) 100 bags of popcorn each having a mass of 55 g are packed in a box. The box has a mass of 500 g .
Find the total mass of the full box.
(6) What temperature is 12 degrees colder than $5^{\circ} \mathrm{C}$ ?

$$
4
$$

7

£1.05
(8) Will scored 51 goals across three football matches. He scored 19 and 16 goals in his first two matches. How many goals did he score in his third match?

| Monday | 150 km | A taxi driver <br> travelled |  |  |
| :--- | :--- | :--- | :---: | :---: |
| Tuesday | 150 km | these |  |  |
| Wednesday | 100 km | distances |  |  |
| Thursday | 100 km | in five days. |  |  |
| Friday | 100 km | in |  |  |

What was the total distance travelled? $\qquad$
10


A square has vertices at
$(3,0),(4,3),(1,4)$ and $(x, y)$. What are the values of $x$ and $y$ ?
( 0,1 )

11 Find the total number of days in the last six months of the year.
(12) $\frac{28}{7}=\frac{36}{x}$ Find the value of $x$.

## Answer

(1) $£ 1.45+86 p=£$
£2.31
(2) $\frac{7}{8}+\square=1 \frac{1}{2}$
(3) $40.5 \div 10=$
(4)
$2 \longdiv { £ 1 . 9 3 }$
(5) $\square \mathrm{cm} \times 10=1.40 \mathrm{~m}$
(6) $£ 3-£ \square=£ 0.72$
(7) $117 \mathrm{~min}=\square \mathrm{h} \square \mathrm{min}$
(8) $0.4 \mathrm{~kg}-\quad \mathrm{g}=130 \mathrm{~g}$
(9) $45 \div 9=40 \div$

Find the value of $x$.
£3.86
4.05
(10) $350 \mathrm{ml} \times 8=\square$
(11) $999 \times 3=$
(12 $15 \mathrm{~km}-10.5 \mathrm{~km}=\square \mathrm{m}$

## Answer

(1) Write as a decimal: 403 hundredths.
(2) What fraction of 1 hour is 12 minutes? $\qquad$
(3) How many 20 ps are equal in value to $£ 0.8$ ? 4
(4) Find the difference between $\left(\frac{4}{7}+\frac{3}{7}\right)$ and 7 .6
(5) Divide the sum of $£ 3.50$ and 75 p by 5 .
(6) Write 10 l 250 ml to a the nearest litre
b the nearest $\frac{1}{2}$ litre.

| a | 101 |
| :--- | ---: |
| $b$ | $10 \frac{1}{2}$ |

(7) Write each of these as an equivalent fraction with the denominator 5 .
a $\frac{15}{25}$
a $\frac{3}{5}$
b $\frac{60}{100}$
b $\frac{3}{5}$

| a $\frac{3}{5}$ |
| :--- |
| b $\frac{3}{5}$ |

85p
b $0 \frac{1}{2}$ l
(8) What must be added to three

10 ps and six 5 ps to make 90 p?
30p
(9) Subtract the shortest measurement from the longest.

| 0.24 m | $\frac{1}{4} \mathrm{~m}$ | 1.0 m | 120 cm |
| :--- | :--- | :--- | :--- |

(10) What number is the

Roman numeral C?
11 Eight cricket bats each measure 65 cm .
Find their total length in metres.
5.2m
(12) 600 ml cost 42 p . Find the cost of 1 l .

C

## Answer

1 How many cereal packets, each containing 250 g , can be made from 10kg of cereal? $\qquad$
$x$ y
(2) 34.94 Find the difference between the 4 marked $x$ and the 4 marked $y$.
(3)


Each square represents 1 square centimetre.
a Find the area of the rectangle in $\mathrm{cm}^{2}$.
a
$21 \mathrm{~cm}^{2}$
b Find its perimeter in centimetres.
b $\quad 20 \mathrm{~cm}$
(4) How many ice creams, each costing 60 p, can be bought for $£ 4.80$ ?

8
(5) Find the total value of the coins.
£3.70

(6) Which shape is
a a rhombus
a C
b a kite
b D $\qquad$
c a trapezium?

c A

(7) A car is 3350 mm in length and a minibus is 3.5 m long. By how many millimetres is the minibus longer
than the car?

150 mm
8 The total length of the sides of an isosceles triangle is 840 mm . The shortest side measures 240 mm . Find the length of each of the other two sides.

9 Ellie counts back seven from zero, then counts on four and then back six. What number does she end up on?

10 60p is made up of an equal number of 5 ps and 10 ps. How many 5 ps are there?
(11) The widest point across a 10p coin measures 24.5 mm . 10 coins are placed side by side in a straight line. Find the length of the line in centimetres.


Write the time that is $4 \frac{1}{2}$ hours after the time on the clock, using the 24-hour format.

A Write in digits.
nine hundred and sixty
four hundred and eight 960
eight thousand and seventy 408 8070
four thousand and six
ten point one
three point zero five

4006
10.1
3.05
one point one nine 1.19
twenty point zero two
20.02

B $3000+500+\square+9=3569$
$6000+\square+80+1=6881$ $3+40+9000=$
$(1000 \times 4)+(100 \times 9)+(10 \times 3)=$
-


60 800
9043
4930
$7.0+0.5+0.01=$ 7.51
$10.0+0.4=$ 10.4
$6.0+0.02=$ 6.02
$20.0+0.08=$
20.08

C $456=\square$ tens +6 units
$903=\square$ tens +3 units
$1875=\square$ tens +5 units
$5102=\square$ hundreds +2 units
$9040=\square$ hundreds +4 tens

45 tens
90 tens
187 tens
51 hundreds
90 hundreds

Write as a decimal.
one-tenth
one-hundredth
101 tenths
105 hundredths
0.1
0.01
10.1
1.05

| $\frac{9}{10}$ |
| :--- |
| $\frac{18}{100}$ |
| $\frac{95}{100}$ |
| $\frac{20}{100}$ |0.9

D Write the value of the digit underlined.

| $4 \underline{7}$ | 60 | 3751 | 700 | 32.14 | $\frac{1}{10}$ | 865.8 | $\frac{8}{10}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8479 | 8000 | 2008 | 8 | 10.95 | $\frac{5}{100}$ | 40.06 | $\frac{6}{100}$ |
| 32.5 | 2 | 160.2 | 60 | 0.56 | $\frac{5}{10}$ | 20.02 | $\frac{2}{100}$ |

(E) How many times smaller is

5 than $50 \quad 10$
7 than $700 \quad 100$
270 than $2700 \quad 10$

| 96 than 960 | 10 | 0.6 than 6.0 | 10 | 0.3 than 30 | 100 |
| :--- | ---: | :--- | ---: | :--- | ---: |
| 23 than 2300 | 100 | 0.1 than 10.0 | 100 | 0.07 than 0.7 | 10 |
| 54 than 5400 | 100 | 0.08 than 8.0 | 100 | 0.25 than 25? | 100 |

F How many times larger is

| 390 than 39 | 10 | 400 than 40 | 10 | 8.0 than 0.8 | 10 | 50 than 0.5 | 100 |
| :--- | ---: | :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| 4500 than 45 | 100 | 9000 than 90 | 100 | 16.0 than 1.6 | 10 | 0.4 than 0.04 | 10 |
| 3100 than 31 | 100 | 6140 than 614 | 10 | 9.0 than 0.09 | 100 | 17 than $0.17 ?$ | 100 |


(H) Find the value of each missing number.

| $\square-9=3$ | 12 | $14-\square=5$ | 9 | $\square+7=13$ | 6 | $8+\square=14$ | 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $8+\square=15$ | 7 | $\square-5=8$ | 13 | $12-\square=4$ | 8 | $\square-7=9$ | 16 |
| $\square-7=4$ | 11 | $9+\square=15$ | 6 | $9+\square=18$ | 9 | $\square+9=17$ | 8 |
| $\square+2=11$ | 9 | $\square-8=8$ | 16 | $\square-5=7$ | 12 |  |  |


| (A) $7 \times 7=$ | 49 | $(6 \times 9)+8=$ | 62 | $36 \div 9=$ | 4 | $30 \div 8=$ | $3 r 6$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $8 \times 6=$ | 48 | $(4 \times 8)+7=$ | 39 | $49 \div 7=$ | 7 | $16 \div 9=$ | 1 r 7 |
| $3 \times 7=$ | 21 | $(5 \times 7)+6=$ | 41 | $30 \div 5=$ | 6 | $20 \div 3=$ | $6 r 2$ |
| $5 \times 9=$ | 45 | $(6 \times 3)+2=$ | 20 | $72 \div 8=$ | 9 | $54 \div 8=$ | 6 r 6 |
| $7 \times 8=$ | 56 | $(1 \times 9)+5=$ | 14 | $24 \div 6=$ | 4 | $80 \div 9=$ | 8 r 8 |
| $6 \times 6=$ | 36 | $(2 \times 7)+6=$ | 20 | $0 \div 4=$ | 0 | $63 \div 8=$ | 7 r 7 |
| $4 \times 5=$ | 20 | $(3 \times 9)+6=$ | 33 | $27 \div 9=$ | 3 | $20 \div 7=$ | $2 r 6$ |
| $9 \times 2=$ | 18 | $(7 \times 7)+4=$ | 53 | $42 \div 6=$ | 7 | $53 \div 9=$ | 5 r 8 |
| $0 \times 3=$ | 0 | $(5 \times 6)+3=$ | 33 | $64 \div 8=$ | 8 | $21 \div 8=$ | $2 r 5$ |
| $9 \times 9=$ | 81 | $(6 \times 8)+5=$ | 53 | $40 \div 5=$ | 8 | $3 \div 5=$ | $0 r 3$ |
| $8 \times 5=$ | 40 | $(0 \times 5)+3=$ | 3 | $18 \div 9=$ | 2 | $40 \div 7=$ | 5 r 5 |
| $6 \times 7=$ | 42 | $(8 \times 8)+7=$ | 71 | $56 \div 7=$ | 8 | $19 \div 5=$ | 3 r 4 |
| $3 \times 8=$ | 24 | $(4 \times 9)+5=$ | 41 | $28 \div 4=$ | 7 | $69 \div 9=$ | 7 r 6 |
| $9 \times 4=$ | 36 | $(8 \times 7)+4=$ | 60 | $32 \div 8=$ | 4 | $48 \div 7=$ | 6 r 6 |
| $4 \times 6=$ | 24 | $(9 \times 6)+5=$ | 59 | $81 \div 9=$ | 9 | $16 \div 6=$ | $2 r 4$ |
| $7 \times 9=$ | 63 | $(2 \times 8)+6=$ | 22 | $36 \div 6=$ | 6 | $45 \div 8=$ | 5 r 5 |
| $4 \times 3=$ | 12 | $(4 \times 7)+4=$ | 32 | $35 \div 5=$ | 7 | $57 \div 6=$ | 9 r 3 |
| $9 \times 8=$ | 72 | $(8 \times 9)+8=$ | 80 | $54 \div 9=$ | 6 | $31 \div 8=$ | 3 r 7 |
| $7 \times 4=$ | 28 | $(7 \times 6)+4=$ | 46 | $48 \div 6=$ | 8 | $61 \div 7=$ | 8 r 5 |
| $3 \times 5=$ | 15 | $(3 \times 6)+4=$ | 22 | $63 \div 7=$ | 9 | $62 \div 9=$ | 6 r 8 |

B Find the value of each missing number.

| $5 \times \square=40$ | 8 | $9 \times \square=63$ | 7 | $\square \times 4=32$ | 8 | $16 \div \square=4$ | 4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\square \div 6=5$ | 30 | $\square \div 8=9$ | 72 | $21 \div \square=3$ | 7 | $\square \times 8=64$ | 8 |
| $\square \times 7=42$ | 6 | $5 \times \square=45$ | 9 | $36 \div \square=9$ | 4 | $\square \div 4=7$ | 28 |
| $27 \div \square=9$ | 3 | $\square \div 9=9$ | 81 | $4 \times \square=24$ | 6 |  |  |

C

| $\frac{1}{2}$ of 18 | 9 |
| :--- | :--- |
| $\frac{1}{3}$ of 21 | 7 |
| $\frac{1}{6}$ of 36 |  |
| $\frac{1}{9}$ of 45 | 5 |

$7 \quad \frac{3}{4}$ of 20
$8 \frac{5}{6}$ of 54
$4 \quad \frac{7}{8}$ of 48
$10 \quad \frac{3}{10}$ of 70

15
45
42
$21 \frac{9}{10}$ of 80
$\frac{2}{5}$ of 45
18
$\frac{4}{7}$ of 35
of $63 \quad 49$

- 72

D Find the whole number when

| $\frac{1}{3}$ is 8 | 24 | $\frac{1}{5}$ is 6 | 30 | $\frac{5}{6}$ is 30 | 36 | $\frac{4}{5}$ is 16 | 20 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\frac{1}{6}$ is 7 | 42 | $\frac{1}{8}$ is 9 | 72 | $\frac{7}{8}$ is 21 | 24 | $\frac{2}{7}$ is 12 | 42 |
| $\frac{1}{9}$ is 4 | 36 | $\frac{1}{10}$ is 12 | 120 | $\frac{4}{9}$ is 36 | 81 | $\frac{7}{10}$ is 49. | 70 |

(E) $11 \times 10=$

- 110
$100 \times 10=$ 1000
$145 \times 10=$ 1450
$15 \times 100=$ 1500
$120 \times 100=$
12000
$104 \times 100=$
10400

| $130 \div 10=$ | 13 | $1.3 \times 10=$ |
| :--- | ---: | :--- |
| $800 \div 10=$ | 80 | $0.96 \times 10=$ |
| $4620 \div 10=$ | 462 | $0.02 \times 10=$ |
| $1900 \div 100=$ | 19 | $10.8 \times 100=$ |
| $6500 \div 100=$ | 65 | $0.05 \times 100=$ |
| $10000 \div 100=$ | 100 | $1.13 \times 100=$ |


| 13 |
| ---: |
| 9.6 |
| 0.2 |
| 1080 |
| 5 |
| 113 |


| $4.0 \div 10=$ | 0.4 |
| :--- | ---: |
| $66.0 \div 10=$ | 6.6 |
| $0.3 \div 10=$ | 0.03 |
| $7.0 \div 100=$ | 0.07 |
| $19.0 \div 100=$ | 0.19 |
| $403.0 \div 100=$ | 4.03 |

F Find the missing numerator or denominator.

| $\frac{2}{5}=$ | $\frac{3}{10}$ | $\frac{3}{4}=$ | $\frac{9}{12}$ |
| :--- | :--- | :--- | :--- |
| $\frac{2}{3}=$ | $\frac{12}{\frac{8}{12}}$ | $\frac{1}{5}=$ |  |
| $\frac{5}{6}=$ | $\frac{10}{12}$ | $\frac{3}{5}=$ |  |
| $\frac{7}{16}$ | $\frac{7}{20}$ | $\frac{35}{100}$ | $\frac{1}{25}=$ |


| $\frac{20}{100}$ | $\frac{1}{10}=$ |
| :---: | :---: |
| $\frac{60}{100}$ | $\frac{3}{10}=$ |
| $\frac{4}{100}$ | $\frac{7}{10}=$ |


| $\frac{10}{100}$ | $\frac{50}{100}=$ |
| :---: | :---: |
| $\frac{30}{100}$ | $\frac{75}{100}=$ |
| $\frac{70}{100}$ | $\frac{20}{100}=$ |

$\qquad$

A Write in each box the coins which make up the given amount. Use the least possible number of coins.

| $32 p$ |
| ---: |
| 80 20p, 10p, 2p |
| $8050 p, 20 p, 10 p$ |
| $26 p$ |


| $65 p$ |
| :--- |
| $18 p$ |

B Find the change from each amount.

| Amount | Spent | Change |
| :---: | :---: | :---: |
| $50 p$ | $24 p$ | $26 p$ |
| $50 p$ | $35 p$ | $15 p$ |
| $50 p$ | $12 p$ | $38 p$ |
| $50 p$ | $37 p$ | $13 p$ |
| $50 p$ | $28 p$ | $22 p$ |
| $50 p$ | $19 p$ | $31 p$ |
| $50 p$ | $23 p$ | $27 p$ |
| $50 p$ | $16 p$ | $34 p$ |


| Amount | Spent | Change |
| :---: | :---: | :---: |
| $90 p$ | $81 p$ | $9 p$ |
| $60 p$ | $52 p$ | $8 p$ |
| $30 p$ | $23 p$ | $7 p$ |
| $45 p$ | $41 p$ | $4 p$ |
| $£ 1$ | $24 p$ | $76 p$ |
| $£ 1$ | $37 p$ | $63 p$ |
| $£ 2$ | $£ 1.69$ | $31 p$ |
| $£ 2$ | $£ 1.06$ | $94 p$ |


| Amount | Spent | Change |
| :---: | :---: | :--- |
| $£ 3$ | $£ 2.13$ | $£ 0.87$ |
| $£ 4$ | $£ 1.25$ | $£ 2.75$ |
| $£ 4$ | $£ 2.48$ | $£ 1.52$ |
| $£ 5$ | $£ 3.09$ | $£ 1.91$ |
| $£ 5$ | $£ 2.46$ | $£ 2.54$ |
| $£ 5$ | $£ 1.67$ | $£ 3.33$ |
| $£ 5$ | $£ 2.11$ | $£ 2.89$ |
| $£ 5$ | $£ 0.88$ | $£ 4.12$ |

C $105 \mathrm{ps}=$

| 252 ps |
| ---: |
| 152 ps |
| 710 ps |
| 5010 ps |
| 320 ps |
| 2520 ps |
| 950 ps |
| 1350 ps |


| $£ 7.50=$ | 15 50ps |
| :--- | ---: |
| $£ 10.00=$ | 2050 ps |
| $£ 3.80=$ | 1920 ps |
| $£ 10.00=$ | 5020 ps |
| $£ 5.00=$ | 5010 ps |
| $£ 7.50=$ | 7510 ps |
| $£ 5.00=$ | 1005 ps |
| $£ 2.20=$ | 445 ps |

£2.55 =
12 20ps, 3 5ps
£1.72 =
£2.78 = $820 \mathrm{ps}, 62 \mathrm{ps}$ 13 20ps, 9 2ps $£ 4.30=$ 38 10ps, 1 50p £3.80 = 7 50ps, 3 10ps £4.25 = 8 50ps, 5 5ps £2.90 = 5 50ps, 4 10ps
£1.64 =
3 50ps, 7 2ps
(D) $24 p+36 p+50 p=$ £1.10
£1.02
£1.09
$25 p+75 p+9 p=$
£1.03
£1.60
£1.35-60p =
$£ 0.75$
£2.70-85p =
£1.85
£4.60-99p =
£3.61
£2.29-£0.74 =
$£ 1.55$
$£ 3.20-£ 2.93=$
£0.27
$£ 2.24+£ 3.09=$
$£ 5.33$
$£ 4.75-£ 2.80=$
£1.95
$£ 1.62+£ 1.38=$
£3.00
£1.50-£0.77 =
$£ 0.73$
$£ 3.87+£ 0.45=$
$£ 4.32$

E Find the cost of

| 5 kg at 25 p per kg | £1.25 | $1 \frac{1}{2}$ l at 28 p per 1 | £0.42 | 5 m at $£ 1.18$ per m | $£ 5.90$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $3 \frac{1}{2} \mathrm{~kg}$ at 30 p per kg | £1.05 | 31 at 55p perl | £1.65 | 75 cm at $£ 1$ per m | £0.75 |
| $4 \frac{1}{2} \mathrm{~kg}$ at 20 p per $\frac{1}{2} \mathrm{~kg}$ | $£ 1.80$ | $2 \frac{1}{2} \mathrm{l}$ at 22 p per l | £0.55 | $4 \frac{1}{2} \mathrm{~m}$ at 50 p per m | £2.25 |
| 2 kg at 50 p per 200 g | $£ 5.00$ | $\frac{1}{2} \mathrm{l}$ at 60 p per 100 ml | £3.00 | $1 \frac{1}{4} m$ at 20 p per $\frac{1}{2} m$ | $£ 0.50$ |
| $6 \frac{1}{2} \mathrm{~kg}$ at 60 p per kg | £3.90 | 750 ml at 26 p per $\frac{1}{2}$ l | £0.39 | 2 m at 30 p per 20 cm . | £3.00 |

F Write the times shown on these clocks
a using the 12-hour clock format, using a.m. or p.m.
b using the 24-hour clock format.


A $1 \mathrm{~cm}=$
$0.1 \mathrm{~cm}=$
$1 \mathrm{~m}=$
$0.1 \mathrm{~m}=$
$0.8 \mathrm{~m}=$

10 mm
1 mm
100 cm
10 cm
80 cm
$0.01 \mathrm{~m}=$

| 1 cm |
| ---: |
| 25 cm |
| 75 cm |
| 1000 mm |
| 500 mm |


| 250 mm | $\frac{1}{4} \mathrm{~m}=$ |
| ---: | ---: |
| 750 mm | $\frac{1}{2} \mathrm{~m}=$ |
| 1000 m | $\frac{3}{4} \mathrm{~m}=$ |
| 500 m | $\frac{1}{2} \mathrm{~m}=$ |
| 750 m | $\frac{3}{4} \mathrm{~m}=$ |

B $184 \mathrm{~mm}=$
$307 \mathrm{~mm}=$
$465 \mathrm{~cm}=$
$1000 \mathrm{~cm}=$
$340 \mathrm{~cm}=$

| 18 cm | 4 mm |
| ---: | ---: |
| 30 cm | 7 mm |
| 4 m | 65 cm |
| 10 m | 0 cm |
| 3 m | 40 cm |

$390 \mathrm{~mm}=$
$412 \mathrm{~mm}=$ $800 \mathrm{~cm}=$ $330 \mathrm{~cm}=$ $785 \mathrm{~cm}=$

| 39 cm |
| ---: |
| 41.2 cm |
| 8 m |
| 3.3 m |
| 7.85 m |

$3258 m=$
$5106 m=$
$8200 m=$
$6500 m=$
$7750 m=$

| 3 km | 258 m |
| ---: | ---: |
| 5 km | 106 m |
|  | 8.2 km |
|  | 6.5 km |
|  | 7.75 km |

C $3000 \mathrm{~g}=$ $5280 \mathrm{~g}=$ $8090 \mathrm{~g}=$ $4400 \mathrm{~g}=$ $7250 \mathrm{~g}=$

|  | 3 kg |
| ---: | ---: |
| 5 kg | 280 g |
| 8 kg | 90 g |
|  | 4.4 kg |
|  | 7.25 kg |

$5000 \mathrm{ml}=$
$2884 \mathrm{ml}=$
$6160 \mathrm{ml}=$
$7300 \mathrm{ml}=$
$900 \mathrm{ml}=$

| 51 | $\frac{1}{2} \mathrm{~kg}=$ |
| :---: | :---: |
| 21884 ml | $\frac{1}{4} \mathrm{~kg}=$ |
| 6 l 160 ml | $\frac{3}{4} \mathrm{~kg}=$ |
| 7.31 | $\frac{1}{2}$ l= |
| 0.91 | $\frac{3}{4} l=$ | 500g 250 g 750 g 500 ml 750 ml

(D) $240 \mathrm{~g}+\quad 260 \mathrm{~g}$
$370 \mathrm{~g}+\quad 130 \mathrm{~g}$
$=\frac{1}{2} \mathrm{~kg}$

| $\frac{1}{2} l+$ | $=592 \mathrm{ml}$ |  |
| :--- | :--- | :--- |
| $\frac{1}{2} l+$ | 92 ml | 134 ml |
| $\frac{1}{2} l+$ | $=634 \mathrm{ml}$ |  |
| $\frac{1}{4} l+$ | 327 ml | $=827 \mathrm{ml}$ |
| $\frac{1}{4} l+$ | 60 ml | $=310 \mathrm{ml}$ |
|  | 175 ml | $=425 \mathrm{ml}$ |

$820 \mathrm{~g}-0.7 \mathrm{~kg}=$ 120 g
$925 \mathrm{ml}-0.8 \mathrm{l}=$ 125 ml
$0.6 \mathrm{~kg}+60 \mathrm{~g}=$ 660 g
$406 \mathrm{~g}+\quad 94 \mathrm{~g}$
1
$=\frac{1}{2} \mathrm{~kg}$
$=310 \mathrm{ml}$
$0.251+120 \mathrm{ml}=$ 370 ml
$0.75 \mathrm{~kg}+240 \mathrm{~g}=$

E Work across the page. Write to the nearest whole number
nearest hundred nearest $£ 1$

| $19 \frac{3}{4}$ | 20 |
| :--- | :--- | ---: |
| 308 | 300 |
| $£ 17.09$ | $£ 17$ |

$10 \frac{1}{3} \quad 10$
14.4

1326
£32.50

| 11 cm |
| ---: |
| 7 m |
| 19 km |
| 10 kg |
| $12 \frac{1}{2} \mathrm{~kg}$ |
| 10 l |

39.6 cm
15.3 m

12
$953-1000$
£5

\section*{| 7 cm | 109 mm |
| :--- | :--- |}

730 cm
$18 \mathrm{~km} \mathrm{900m}$
9 kg 550 g
12 kg 380 g
91600 ml
11.5 2950
78.5 km 79 km
99.25kg

5 kg 600 g
Ol 3.71 $\qquad$
nearest cm
nearest $m$
nearest km
nearest kg
nearest $\frac{1}{2} \mathrm{~kg}$
nearest l

| $7 \mathrm{~cm} \mathrm{2mm}$ | 7 cm | 109 mm |
| :--- | ---: | :--- |
| $8 \mathrm{~m} \mathrm{51cm}$ | 9 m | 730 cm |
| $12 \frac{1}{4} \mathrm{~km}$ | 12 km | $18 \mathrm{~km} \mathrm{900m}$ |
| $4 \mathrm{~kg} \mathrm{300g}$ | 4 kg | $9 \mathrm{~kg} \mathrm{550g}$ |
| $6 \mathrm{~kg} \mathrm{200g}$ | 6 kg | $12 \mathrm{~kg} \mathrm{380g}$ |
| 51400 ml | 5 l | 91600 ml |

F Write the letter of the shape that is a right-angled triangle

E a rhombus G an obtuse-angled triangle $\qquad$ A an isosceles triangle.
a rectangle
D a parallelogram


G Each square represents $1 \mathrm{~cm}^{2}$. Write the area and perimeter of each rectangle. Give the units.

$16 \mathrm{~cm}^{2}-16 \mathrm{~cm}$

