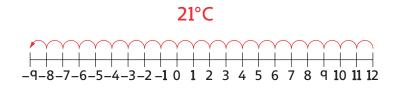


The temperature at lunchtime was 12°C. By midnight it had fallen to -9°C. By how much did the temperature drop?





Schofield&Sims

KS2 SATs Maths

7

A 4-digit number is made up of two different even digits and two different odd digits. What is the greatest possible number that it can be?

9876

7

8

9

10

Schofield&Sims

KS2 SATs Maths

8

Deepak buys a second-hand car costing £2660. He pays a deposit of £500 and then pays the rest in 12 equal monthly instalments. How much does he pay each month?

£180 a month

 $f2660 - f500 = f2160, f2160 \div 12 = f180$

Schofield&Sims

KS2 SATs Maths

9

Az completes this subtraction calculation.

162 - 43 = 119

What addition calculation could he use to check his answer?

119 + 43 = 162 (or 43 + 119 = 162)

Schofield&Sims

KS2 SATs Maths

10

There are 210 people on a train.
14 people get off at the first station,
37 people get on at the second
station and 55 people get off at the
third station. How many people are
left on the train?

178 people

210 - 14 + 37 - 55 = 178

Schofield&Sims	KS2 SATs Maths	11	
Which four factors of 30 are not also factors of 40?		3, 6, 15, 30 Factors of 30 are 1, 2, 3, 5, 6, 10, 15, 30 and factors of 40 are 1, 2, 4, 5, 8, 10, 20, 40.	
Schofield&Sims	KS2 SATs Maths	12	
Find all the common multiples of 6 and 8 that are less than 70.		24, 48 Multiples of 6 are 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66 and multiples of 8 are 8, 16, 24, 32, 40, 48, 56, 64.	
Schofield&Sims	KS2 SATs Maths	13	
Find the next prime number after 31.		37	
Schofield&Sims	KS2 SATs Maths	14	
What is 2 ² + 3 ³ ?		31 $2 \times 2 = 4, 3 \times 3 \times 3 = 27, 4 + 27 = 31$	
Schofield&Sims	KS2 SATs Maths	15	
What are the next two numbers in this sequence? 1, 8, 27,,		64, 125 (they are cube numbers)	

Schofield&Sims	KS2 SATs Maths	16	
A bakery makes 4940 cakes one day and 6375 cakes the next day. It sells 8467 cakes to a large supermarket chain. How many cakes does it have left to sell?		2848 cakes 4940 + 6375 = 11,315, 11,315 - 8467 = 2848	
Schofield&Sims	KS2 SATs Maths	17	
Calculate 0.162 × 1000		162	
Schofield&Sims	KS2 SATs Maths	18	
800 football fans are travelling to a match on coaches. Each coach can hold 12 passengers. How many coaches will be needed altogether?		67 coaches 800 ÷ 12 = 66 r 8	
Schofield&Sims	KS2 SATs Maths	19	
A printing company prints 1440 books. It packages them into boxes which hold 12 books. How many boxes will be needed altogether?		120 boxes 1440 ÷ 12 = 120	
Schofield&Sims	KS2 SATs Maths	20	
A group of friends share 40 chocolates equally between them. They each get 8 chocolates. How many friends are in the group?		5 friends 40 ÷ 8 = 5	

Schofield&Sims

KS2 SATs Maths

21

1090 $400 \times 2 = 800, 300 + 800 - 10 = 1090$

21

Schofield&Sims

Schofield&Sims

KS2 SATs Maths

22

What is $4\frac{3}{6}$ written as an improper fraction?

<u>27</u>

KS2 SATs Maths

22

23

Write $\frac{24}{18}$ in its simplest form.

 $\frac{1}{3}$ $\frac{24}{18} = \frac{12}{9} = \frac{4}{3}$

23

Schofield&Sims

KS2 SATs Maths

24

Write the missing values to make these **equivalent fractions** correct.

$$\frac{3}{8} = \frac{6}{32} = \frac{6}{32}$$

24

25

Schofield&Sims

KS2 SATs Maths

<u>q</u>

 $\frac{3}{8} = \frac{12}{32} = \frac{6}{16}$

Which of these fractions is the largest?

$$\frac{5}{8}$$
 $\frac{14}{16}$ $\frac{9}{8}$ $\frac{12}{32}$

Convert the fractions into equivalents: $\frac{5}{8}$, $\frac{7}{8}$, $\frac{9}{8}$, $\frac{9}{8}$ is the largest.

Rosie read $\frac{1}{6}$ of her book on Tuesday, $\frac{1}{3}$ of her book on Wednesday and the rest of her book on Thursday. What fraction of her book did she read on Thursday?

 $\frac{3}{6}$ (or $\frac{1}{2}$) of her book

$$\frac{1}{6} + \frac{1}{3} = \frac{1}{6} + \frac{2}{6} = \frac{3}{6}, 1 - \frac{3}{6} = \frac{3}{6}$$

Schofield&Sims

KS2 SATs Maths

27

Calculate $\frac{1}{2} \times \frac{1}{3}$

 $\frac{1}{6}$

Schofield&Sims

KS2 SATs Maths

28

Calculate $\frac{1}{6} \div 3$

 $\frac{1}{18}$

28

29

27

29

What is $\frac{1}{5}$ written as decimal?

0.2

Schofield&Sims

Schofield&Sims

KS2 SATs Maths

KS2 SATs Maths

30

Round 6.45 to the nearest whole number.

6

Which of these numbers is **closest** to 1? 0.9 1.100 0.999 1.1 0.99

0.999

31

Schofield&Sims

KS2 SATs Maths

32

What is the value of the underlined digit?

0.3<u>7</u>4

 $\frac{7}{100}$ (or 7 hundredths or 0.07)

32

Schofield&Sims

KS2 SATs Maths

33

What is 11% of 3500?

385

10% of 3500 = 350, 1% of 3500 = 35, 350 + 35 = 385.

33

Schofield&Sims

KS2 SATs Maths

34

Marta spent $\frac{2}{5}$ of a PE lesson playing football. For the rest of the lesson, she played tennis. What **percentage** of the lesson did she spend playing tennis?

60%

$$1 - \frac{2}{5} = \frac{3}{5}$$
, $\frac{3}{5} = \frac{6}{10} = 60\%$.

Schofield&Sims

KS2 SATs Maths

35

Give $\frac{4}{5}$ as a decimal and as a percentage.

0.8 and 80%

38

39

40

Finn uses **250ml** of milk to make **two** strawberry milkshakes. How much milk would he need to make **three** strawberry milkshakes?

375ml

$$250 \div 2 = 125, 125 \times 3 = 375$$

36

Schofield&Sims

KS2 SATs Maths

Logan has 21 sweets and Abi has 35 sweets.

Logan and Abi share 56 sweets in the ratio 3:5. How many sweets do they each have?

In a primary school with 420 pupils, 15% of the pupils are boys. How many

of the pupils are girls?

 $3 + 5 = 8, 56 \div 8 = 7,$ $3 \times 7 = 21, 5 \times 7 = 35$

37

Schofield&Sims

KS2 SATs Maths

357 are girls

10% of 420 = 42, 5% of 420 = 21, 42 + 21 = 63, 420 - 63 = 357

38

Schofield&Sims

KS2 SATs Maths

 $2.5 \times 10 = 25$

25cm

The diameter of a circle is **2.5cm**. What is the diameter when the circle is enlarged by a scale factor of **10**?

39

Schofield&Sims

KS2 SATs Maths

20 grapes

Arlo and Lee's grapes are in the ratio 1:2. 1 + 2 = 3, $30 \div 3 = 10$,

1 + 2 = 3, $30 \div 3 = 10$, $1 \times 10 = 10$, $2 \times 10 = 20$

Arlo and Lee have 30 grapes altogether. Arlo has half as many grapes as Lee. How many grapes does Lee have?

42

If 3a - 16 = 44, what is the value of a?

a = 20 $44 + 16 = 60, 60 \div 3 = 20$

41

Schofield&Sims

KS2 SATs Maths

If b = 31, what is 4b - 8?

4 × 31 = 124, 124 – 8 = 116

116

42

Schofield&Sims KS2 SATs Maths

43

The rule for this sequence is 'subtract 8 and add 4 each time'. What are the missing numbers?

87, _____, ____, 75, 71

83 and 79

43

Schofield&Sims

KS2 SATs Maths

44

a and b are two different numbers less than 10. Give two possible numbers that a and b could be.

2a - b = 9

a = 5, b = 1 a = 6, b = 3a = 7, b = 5 or

0 = 7, D = 50

a = 8, b = 7

Schofield&Sims

KS2 SATs Maths

45

Each shape stands for a number. Work out the **value** of each shape.



Anita's rabbit eats 50g of rabbit food each day. If rabbit food is sold in bags of 2.5kg, how many days will one bag last for?

50 days

$$2500 \div 50 = 50$$

51

Schofield&Sims

KS2 SATs Maths

4 pens weigh **92.8g**. 1 pen and 3 pencils weigh **78.7g**. How much does 1 pencil weigh?

18.5g

$$92.8 \div 4 = 23.2, 78.7 - 23.2 = 55.5,$$

 $55.5 \div 3 = 18.5$

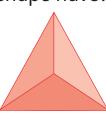
52

Schofield&Sims

KS2 SATs Maths

53

How many edges, faces and vertices does this 3D shape have?



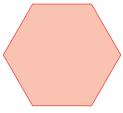
6 edges, 4 faces, 4 vertices

Schofield&Sims

KS2 SATs Maths

54

Explain why this shape is a regular shape.



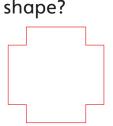
All its sides are the same length and all its angles are equal.

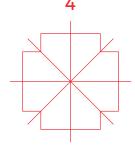
Schofield&Sims

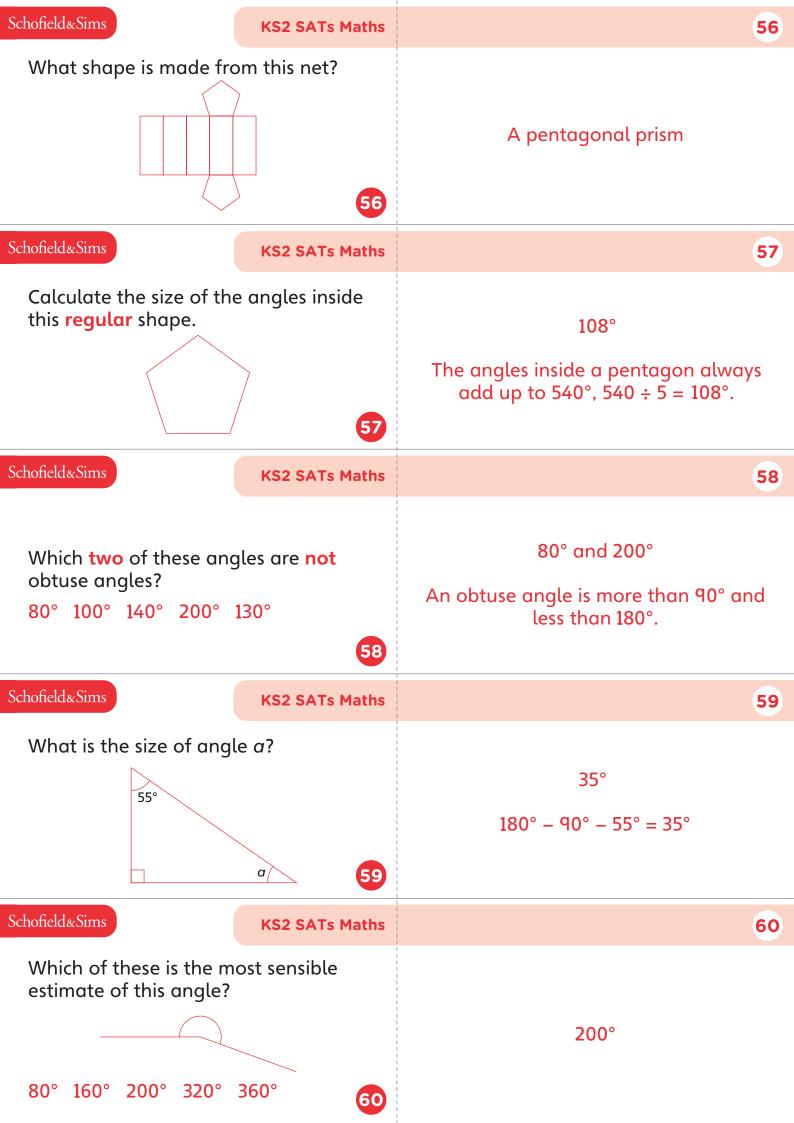
KS2 SATs Maths

55

How many **lines of symmetry** are there on this shape?







KS2 SATs Maths

If the **diameter** of a circle is **13cm**, what is its **radius**?

6.5cm

61

62

63

64

 $13cm \div 2 = 6.5cm$

61

Schofield&Sims

KS2 SATs Maths

circumference > radius < diameter

635 more people

Use <, > or = to complete this statement.

circumference ____ radius ____ diameter

62

63

Schofield&Sims

KS2 SATs Maths

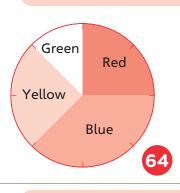
A theme park records the number of visitors over a weekend. How many **more** people visited on Sunday than on Saturday?

Day	Men	Women	Children
Saturday	563	674	836
Sunday	748	958	1002

563 + 674 + 836 = 2073, 748 + 958 + 1002 = 2708, 2708 - 2073 = 635

Schofield&Sims

The pie chart shows the favourite colours of 40 children. What percentage of the children prefer red?



KS2 SATs Maths

25%

Schofield&Sims

KS2 SATs Maths

65

Leo buys three chocolate bars costing 42p, 55p and 29p. What is the mean price of the chocolate bars?

 $42p + 55p + 29p = 126p, 126p \div 3 = 42p$