Find the missing number to complete this statement.
$\qquad$ is 10,000 more than 553,739 .

Which of these numbers is closest to 9000?

## 8999

११qๆ 800080998999 १002
2

What is the value of the underlined digit?

$$
70,000
$$

9,674,001

Which of these is the year 1925 in Roman numerals?

The temperature at lunchtime was
$12^{\circ} \mathrm{C}$. By midnight it had fallen to $-9^{\circ} \mathrm{C}$.
By how much did the temperature drop?

## $21^{\circ} \mathrm{C}$



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

## Schofield\&Sims

KS2 SATs Maths

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

$£ 2660-£ 500=£ 2160, £ 2160 \div 12=£ 180$

Az completes this subtraction calculation.
$162-43=119$
What addition calculation could he use to check his answer?

$$
119+43=162(\text { or } 43+119=162)
$$

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?

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.

Find all the common multiples of 6 and 8 that are less than 70 .

Multiples of 6 are $6,12,18,24,30,36$, $42,48,54,60,66$ and multiples of 8 are $8,16,24,32,40,48,56,64$.

Find the next prime number after 31.

What is $2^{2}+3^{3}$ ?

What are the next two numbers in this sequence?

$$
2 \times 2=4,3 \times 3 \times 3=27,4+27=31
$$

$1,8,27$, $\qquad$ , $\qquad$

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?

800 football fans are travelling to a match on coaches. Each coach can hold 12 passengers. How many coaches will be needed altogether?

A printing company prints 1440 books. It packages them into boxes which hold 12 books. How many boxes will be needed altogether?

120 boxes

$$
1440 \div 12=120
$$

A group of friends share 40 chocolates equally between them. They each get 8 chocolates. How many friends are in the group?
$300+400 \times 2-10=$ $\qquad$

1090

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

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

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

$$
\begin{gathered}
\frac{4}{3} \\
\frac{24}{18}=\frac{12}{9}=\frac{4}{3}
\end{gathered}
$$

23

## Schofield\&Sims

Write the missing values to make these equivalent fractions correct.

$$
\frac{3}{8}=\frac{5}{32}=\frac{6}{}
$$

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

24

Which of these fractions is the largest?

$$
\frac{9}{8}
$$

Convert the fractions into equivalents:
$\frac{5}{8}, \frac{7}{8}, \frac{9}{8}, \frac{3}{8} . \frac{9}{8}$ 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?

$$
\begin{gathered}
\frac{3}{6} \text { (or } \frac{1}{2} \text { ) of her book } \\
\frac{1}{6}+\frac{1}{3}=\frac{1}{6}+\frac{2}{6}=\frac{3}{6}, 1-\frac{3}{6}=\frac{3}{6}
\end{gathered}
$$

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

$$
\frac{1}{6}
$$

Calculate $\frac{1}{6} \div 3$
$\frac{1}{18}$

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

Round 6.45 to the nearest whole

Which of these numbers is closest to 1 ?
$0.9 \quad 1.100$
0.999
$\begin{array}{ll}1.1 & 0.99\end{array}$

What is the value of the underlined digit?
$\frac{7}{100}$ (or 7 hundredths or 0.07 )

32

## Schofield\&Sims

KS2 SATs Maths

385

$$
\begin{gathered}
10 \% \text { of } 3500=350,1 \% \text { of } 3500=35, \\
350+35=385 .
\end{gathered}
$$

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?

Give $\frac{4}{5}$ as a decimal and as a
0.8 and $80 \%$ percentage.

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

36

## Schofield\&Sims

KS2 SATs Maths

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?

375 ml

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

If $3 a-16=44$, 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 $4 b-8$ ?

42

## Schofield\&Sims

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

83 and 79
87, $\qquad$ , $\qquad$ , 75, 71

$$
4 \times 31=124,124-8=116
$$

$a$ and $b$ are two different numbers less than 10. Give two possible numbers that $a$ and $b$ could be.
$2 a-b=9$

$$
\begin{aligned}
& a=5, b=1 \\
& a=6, b=3 \\
& a=7, b=5 \text { or } \\
& a=8, b=7
\end{aligned}
$$

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

$$
\begin{aligned}
& \hat{z} \hat{z}=84 \\
& \hat{z} \bigcirc \widehat{O}=40
\end{aligned}
$$

Three friends took part in a race. Jamal finished in 100 minutes, Amy finished in 2.5 hours and Jo finished in $\frac{1}{12}$ of a day. Who finished last?

## Amy

Jamal took 100 minutes, Amy took 150 minutes and Jo took 120 minutes

46

## Schofield\&Sims

KS2 SATs Maths

Mel walks 530 metres from her house to the supermarket. How far does she walk in kilometres?
0.53 km

$$
530 \div 1000=0.53
$$

Sarah lives 5 miles away from her school. Approximately how far is this in kilometres?
1 mile is approximately 1.6 km .
48
Schofield\&Sims
KS2 SATs Maths

What is the area of this shape?


49

What is the volume of this cuboid?


## $3000 \mathrm{~cm}^{3}$

volume of cuboid = length $\times$ width $\times$ height

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

51

## Schofield\&Sims <br> Sctims

KS2 SATs Maths

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

50 days

$$
2500 \div 50=50
$$

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


Explain why this shape is a regular shape.


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

How many lines of symmetry are there on this shape?


What shape is made from this net?


A pentagonal prism

## Schofield\&Sims

KS2 SATs Maths
Calculate the size of the angles inside this regular shape.

56


$$
108^{\circ}
$$

The angles inside a pentagon always add up to $540^{\circ}, 540 \div 5=108^{\circ}$.

Which two of these angles are not obtuse angles?
$80^{\circ} 100^{\circ} 140^{\circ} 200^{\circ} 130^{\circ}$

## $80^{\circ}$ and $200^{\circ}$

An obtuse angle is more than $90^{\circ}$ and less than $180^{\circ}$.

What is the size of angle $a$ ?

$35^{\circ}$

$$
180^{\circ}-90^{\circ}-55^{\circ}=35^{\circ}
$$

Which of these is the most sensible estimate of this angle?


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

6.5 cm<br>$13 \mathrm{~cm} \div 2=6.5 \mathrm{~cm}$

61

Use <, > or = to complete this statement.
circumference $\qquad$ radius $\qquad$
diameter

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 |

63

## Schofield\&Sims

KS2 SATs Maths

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


Leo buys three chocolate bars costing $42 p, 55 p$ and 29 p. What is the mean price of the chocolate bars?
circumference $>$ radius < diameter

62

