

1st November

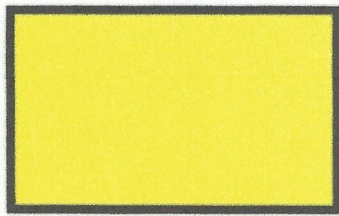
A minibus can hold 16 passengers.

How many passengers can travel in 9 minibuses?

$$\begin{array}{r} 16 \\ \times 9 \\ \hline 144 \end{array}$$

144

8cm

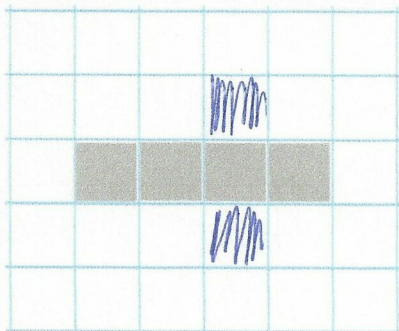
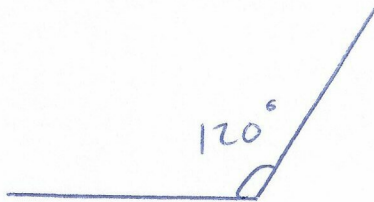


3cm

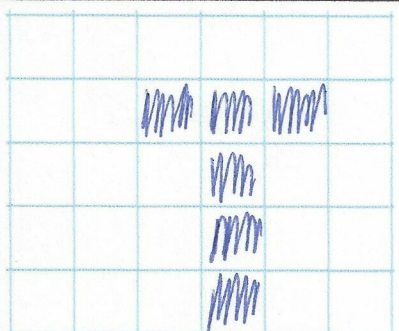
Find the perimeter of the rectangle.

$$8 + 3 + 8 + 3 = 22\text{cm}$$

Draw a 120 degree angle



Shade two more squares so that the shaded shape is a net of a cube.



Shade six more squares to create a different net of a cube.

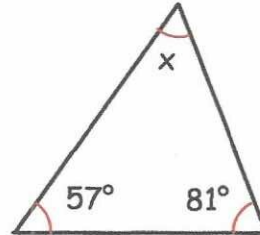
2nd NovemberWork out $-5 + 6$

1

Find x

$$57 + 81 = 138$$

$$180 - 138 = 42^\circ$$

Write these numbers in order of size.
Start with the smallest number.

0.507 0.75 0.5 0.078

0.078, 0.5, 0.507, 0.75

Change 132cm into metres.

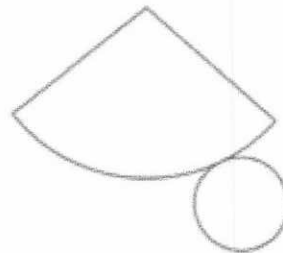
1.32m

Change 98cm into metres.

0.98m

Write down the shape that is made from
this net.

Cone



3rd November

Jennifer is paid £9 an hour.
Kate is paid £8 an hour.

On a Saturday, Jennifer works 5 hours
and Kate works 6 hours.

Who earns more?

Kate

$$9 \times 5 = 45$$

$$8 \times 6 = 48$$

Write down the first five multiples of 8.

8, 16, 24, 32, 40

Write down all the factors of 60.

*1, 2, 3, 4, 5, 6, 10, 12, 15,
20, 30, 60*

Work out

$$120 - 10 \times 3^2$$

$$120 - 10 \times 9$$

$$120 - 90 = 30$$

A car park is open from 7am until 10pm.

200 cars enter the car park between
7am and 9am.

$\frac{1}{4}$ of these cars are red.

How many red cars enter the car park
between 7am and 9am.

$$\frac{1}{4} \text{ of } 200 = 50$$

Another 63 cars enter the car park
between 9am and 11am.

Nathanael says $\frac{1}{2}$ of these cars are red.

Explain why he is wrong.

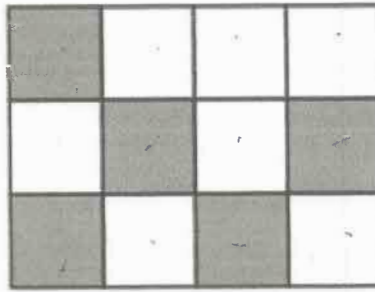
$$63 \div 2 = 31.5$$

Not possible

4th November

What fraction of the shape is shaded?

$$\frac{5}{12}$$


 $\sqrt{49}$

7

Calculate the perimeter of a rectangle that has length 13cm and width 4cm.

$$13 + 13 + 4 + 4 = 34 \text{ cm}$$

Work out $\frac{2}{5}$ of 25

$$25 \div 5 = 5$$

$$5 \times 2 = 10$$

Logan runs for 420 seconds.

How many minutes is this?

$$420 \div 60$$

60	1
120	2
180	3
240	4
300	5
360	6
420	7

7 minutes

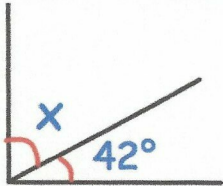
5th November

Work out the product of 12 and 3

$$36$$

Work out the difference between 90 and 35

$$90 - 35 = 55$$



$$48^\circ$$

Find x

A footballer plays 20 matches in a season.
In each match he plays 90 minutes.

Work out the total number of minutes he played.



$$20 \times 90 = 1800 \text{ minutes}$$

Raffle Tickets
40p each

Georgia sells 5 books of raffle tickets.
There are 10 tickets in each book.

How much money does Georgia raise?

$$10 \times 40p = \text{£}4$$

$$\text{£}4 \times 5 = \underline{\underline{\text{£}20}}$$

Medals won

France	Germany	Poland	Portugal	Spain
34	44		1	17

The table shows how many medals were won in the 2012 olympics by 5 countries.

The total number of medals won by these countries was 106.

How many medals did Poland win?

$$34 + 44 + 1 + 17 = 96$$

$$106 - 96 = \underline{\underline{10}}$$

6th November	
Work out 3^2 <div style="text-align: center;">9</div>	Work out $\sqrt{36}$ <div style="text-align: center;">6</div>
Here is a list of numbers 12 18 23 49 50 21 (a) Write down a prime number <div style="text-align: center;">23</div>	(b) Write down a square number <div style="text-align: center;">49</div>
Work out $5.7 - 3.62$ $\begin{array}{r} 5.70 \\ - 3.62 \\ \hline 2.08 \end{array}$	<div style="text-align: center;">2.08</div>
Find the value of 115×27 $\begin{array}{r} 115 \\ \times 27 \\ \hline 805 \\ + 2300 \\ \hline 3105 \end{array}$	<div style="text-align: center;">3105</div>
<div style="display: flex; justify-content: center; gap: 10px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 30px; text-align: center;">1</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 30px; text-align: center;">2</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 30px; text-align: center;">3</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 30px; text-align: center;">4</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 30px; text-align: center;">5</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 30px; text-align: center;">6</div> </div> A card is picked at random	Write down the probability that the card is a number 5 <div style="text-align: center;">$\frac{1}{6}$</div>

7th November

List the first five square numbers

1 4 9 16 25

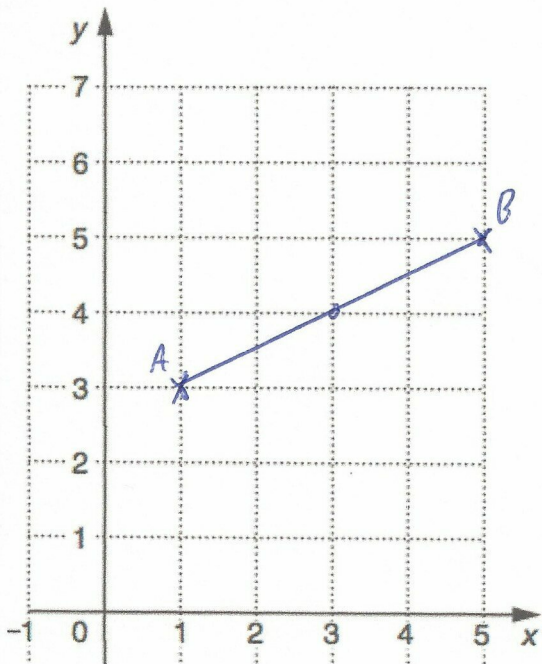
Double 336

$$\begin{array}{r} 336 \\ + 336 \\ \hline 672 \end{array}$$

672

$9.2 + 1.25 + 3.66$

$$\begin{array}{r} 9.20 \\ 1.25 \\ + 3.66 \\ \hline 14.11 \end{array}$$



Plot the coordinate A (1, 3)

Plot the coordinate B (5, 5)

C is the midpoint of AB.

Write down the coordinates of C.

(3, 4)

Complete the pictogram

Key ○ = £10

Tutor group		Raised
S	○○○○○	£50
T	○○○	£30
E	○○	£15
P	○○○○	£40

8th November

Work out 50% of £40

£20

Work out 25% of 24cm

6cm

3 6 12 24

What is the rule for the sequence above?

$\times 2$

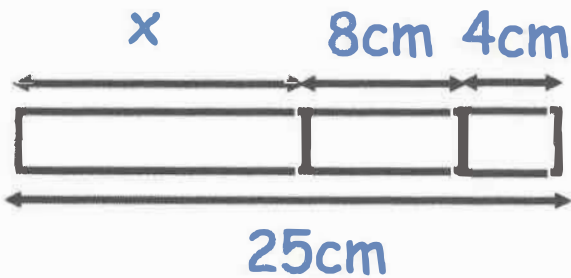
What are the next two numbers?

48 96

How many days are there in four consecutive years?

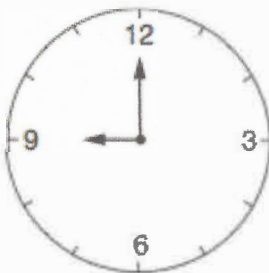
$$\begin{array}{r} 365 \\ 365 \\ 365 \\ + 366 \\ \hline 1461 \end{array}$$

1461 or possibly 1460



Find x

13cm



Eli arrives at school at the time shown.

He left his house **twenty five minutes earlier**.

What time did he leave?

08:35

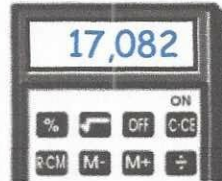
9th November

Work out

12^2

144

Write the number 17,082 in words.

Seventeen thousand and
eighty two.

123 119 115

Write down the next two terms

111, 107

22 cannot be a term in this sequence.

Why?

it is even.

Mrs O'Hagan gave her class a test.
Two thirds of the class passed the
test.

There are 27 students in the class.

How many failed the test?



9

The probability of a football team
winning a match is 80%.

The probability of the team drawing
is 13%

$80 + 13 = 93$

What is the probability of the team
losing the match?

7%

10th November

List the first five multiples of 12.

12, 24, 36, 48, 60

Here is part of a bus timetable

	Departure times			
Newry	14:15	14:45	15:20	15:40
Banbridge	14:37	15:07	15:42	16:02
Dromore	14:48	15:18	15:53	16:13
Belfast	15:18	15:48	16:23	16:43

Niall gets the 14:45 bus at Newry and travels to Dromore.

What time should he arrive?

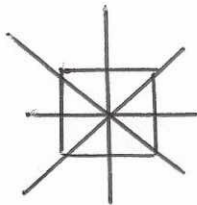
15:18

How long should his journey last?

33 mins

Draw a shape with 4 lines of symmetry

Square



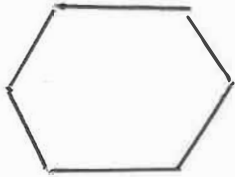
Express 50p as a percentage of £10.

$$\frac{50}{1000} = \frac{5}{100}$$

5%

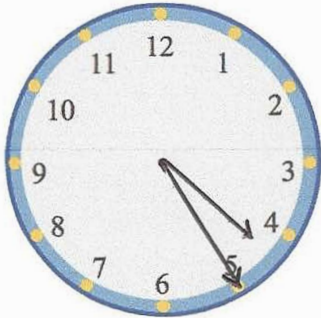
11th November

Draw a hexagon



What is the name of a 7 sided shape?

Heptagon



Show the time 4.25 on the clock

Seven pens cost £1.54
Two pens and a ruler cost £1

$$154 \div 7 = 22$$

$$2 \times 22 = 44$$

What is the cost of one ruler?

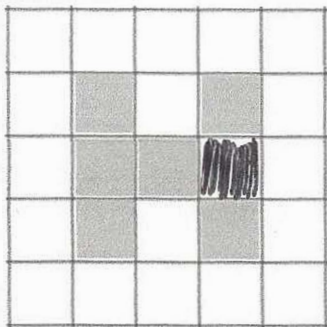
$$100 - 44 = 56p$$

Zainab thinks 33 is a prime number.

Explain why she is wrong.

$$3 \times 11 = 33$$

3 & 11 are factors



Shade in one more square to make a pattern with 2 lines of symmetry.

12th November

Work out 25% of 40

$$40 \div 4 = 10$$

Work out 10% of 40

$$40 \div 10 = 4$$

Three consecutive numbers add to 27.

What are they?

$$8 + 9 + 10$$

Find y

$$95 + 117 = 212$$

$$360 - 212 = \underline{\underline{148^\circ}}$$

**Menu**

Tea	£1.55
Coffee	£2.80
Water	75p
Lemonade	95p
Hot Chocolate	£1.90
Milkshake	£2.65

$$75 \times 3 = 225$$

Jakub buys 3 bottles of water and a tea and a milkshake.

He pays with a £20 note.

How much change will Jakub get?

$$\begin{array}{r}
 225 \\
 155 \\
 + 265 \\
 \hline
 645
 \end{array}
 \qquad
 \begin{array}{r}
 2000 \\
 - 645 \\
 \hline
 1355
 \end{array}$$

£13.55

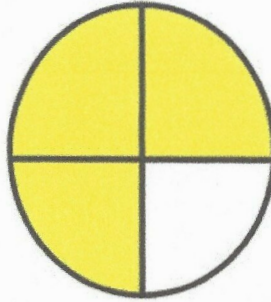
13th November

What fraction of the shape is shaded?

$$\frac{3}{4}$$

What percentage of the shape is shaded?

$$75\%$$



What number is halfway between 7 and 8?

$$7.5$$

What number is halfway between 1.4 and 1.5?

$$1.45$$

$$\dots\dots\dots 50 \dots\dots\dots \% \text{ of } 60 = 30$$

$$\dots\dots\dots 25 \dots\dots\dots \% \text{ of } 60 = 15$$

154 x 27

$$\begin{array}{r}
 154 \\
 \times 27 \\
 \hline
 1078 \\
 + 3080 \\
 \hline
 4158
 \end{array}$$

$$4158$$

What is the mathematical name of this solid?

Cone

14th November

What number is halfway between 30 and 90?

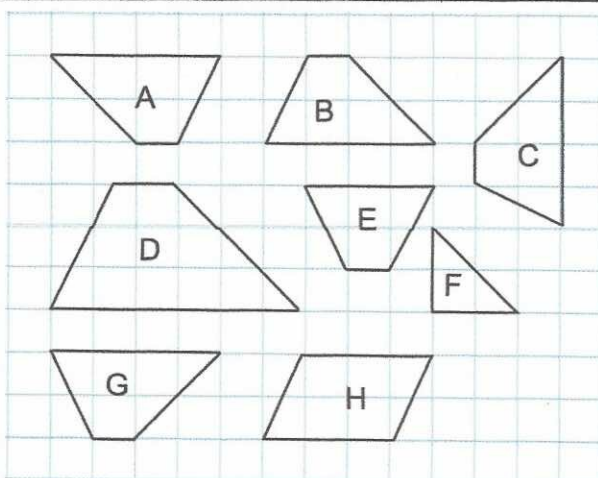
60

What number is halfway between 20 and 70?

45

$$\boxed{9} + \boxed{13} = 22$$

square number prime number



Name shape A

Trapezium

Write down the letters of the shapes which are congruent to shape A

B, C, G

Paul is a car salesman.
He is paid £350 per week and £120 for every car he sells.

In one week, he sells 3 cars.
How much is he paid that week?

$$3 \times 120 = 360$$

$$350 + 360 = \pounds 710$$

15th November

Write 3 metres in centimetres

300 cm

Write 0.7 metres in centimetres

70 cm

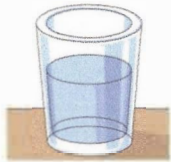
Which metric unit would you use to measure the following?

centimetres



The diameter of a plate.

or millimetres



The amount of water in a glass

millilitres



The weight of an airplane

tonnes

Burger	£4.50
Salad	£2.75
Chips	£2.85
Drink	£1.80

Jude buys a burger, a salad and a drink.

How much change will he get from £10?

$$\begin{array}{r}
 £4.50 \\
 £2.75 \\
 £1.80 \\
 \hline
 £9.05
 \end{array}$$

$£10 - £9.05 =$

95p

The temperatures in a city over a six days in December were:

1°C 3°C -2°C 0°C 4°C -8°C

Arrange the temperatures in order, starting with the warmest.

4°C, 3°C, 1°C, 0°C, -2°C, -8°C

16th November

Draw a right angle



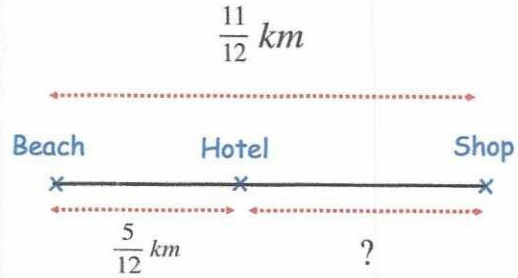
Draw a reflex angle



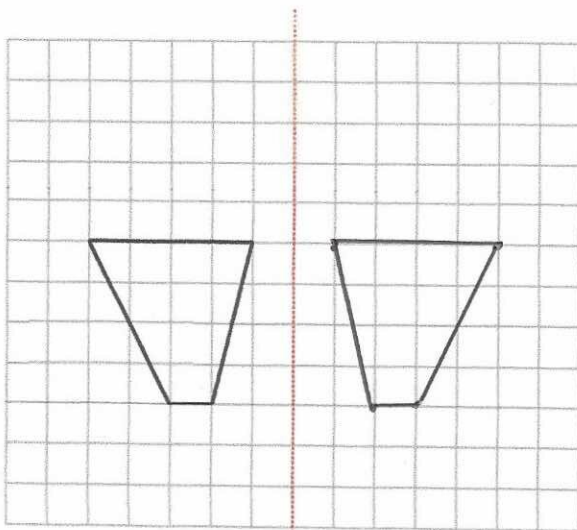
Find the distance from the hotel to the shop.

$$\frac{11}{12} - \frac{5}{12} = \frac{6}{12}$$

$$\frac{1}{2} \text{ km}$$



Name the shape drawn on the grid.



Mirror Line

Trapezium

Reflect the shape in the mirror line

Write $\frac{1}{8}$ as a decimal

0.125

Write $\frac{1}{8}$ as a percentage

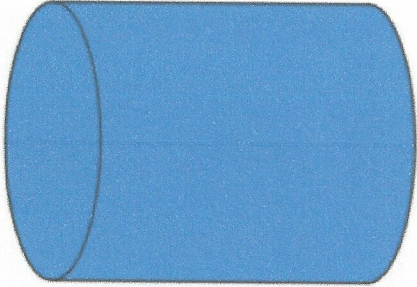
12.5%

17th November

Write down the value of digit 4.

3942

40

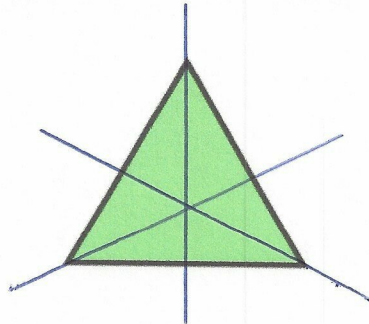


Name this solid

Cylinder

$$\frac{3}{15} = \frac{12}{\boxed{60}}$$

$$\frac{12}{20} = \frac{\boxed{3}}{5}$$

Shown is an equilateral triangle.
Draw on any lines of symmetry.5 friends share £18.20 equally.
How much does each receive?

$$5 \overline{) 18.20} \begin{array}{r} 03.64 \\ \underline{15} \\ 32 \\ \underline{30} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

£3.64

18th November

Write 3103 in words

three thousand, one hundred and three

Write two thousand and one in figures

2001

 11^2

121

Write 65% as a decimal.

0.65

Write 0.3 as a fraction

 $\frac{3}{10}$ 

On a bus there are 35 passengers. Four-fifths of the passengers are right handed.

How many passengers are right handed?

$$35 \div 5 = 7$$

$$7 \times 4 = 28$$

Harper, Iris, Greg and Patrick share £512 equally.

How much do they each receive?

$$4 \overline{) 512}$$

£128

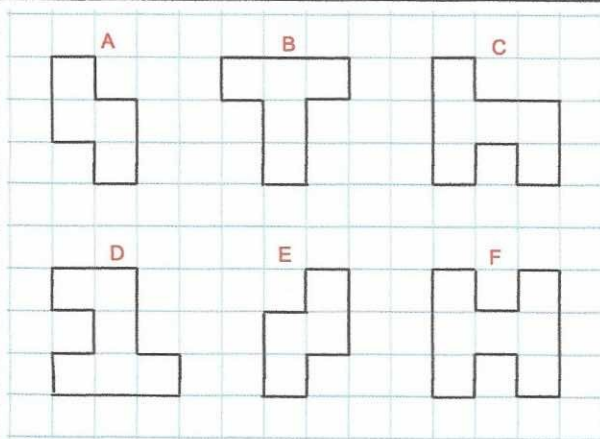
19th November

Round 179.6 to the nearest whole number

180

Round 12.48 to the nearest whole number

12



Which shape is congruent to A?

E

Name two other congruent shapes.

C, D



Find the area of the square

 36cm^2

Find the perimeter of the square

24cm

$$\frac{6}{11} + \frac{2}{11}$$

$$\frac{8}{11}$$

$$\frac{6}{11} - \frac{2}{11}$$

$$\frac{4}{11}$$

20th November

12 13 14 15 16 17 18

From the list:
Write down a prime number

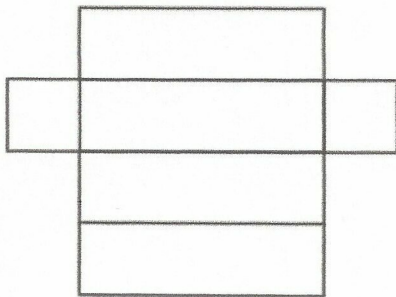
13 or 17

From the list:
Write down a multiple of 8

16

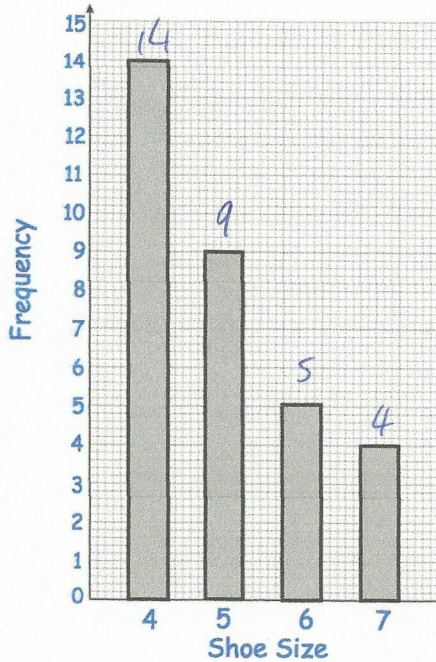
From the list:
the two numbers that have a sum of 34.

16 & 18



This is the net for which solid?

Cuboid



How many students had a size 5 shoe?

9

How many students were in the class?

$$14 + 9 + 5 + 4 = 32$$

21st November

Draw a shape with one line of symmetry



$$\begin{array}{r}
 3 \boxed{5} 4 \\
 + 2 \boxed{8} 6 \\
 \hline
 \boxed{6} 4 \boxed{0}
 \end{array}$$

In a class of 30 students, 12 were late.

What fraction of the class were late?

$$\frac{12}{30} = \frac{2}{5}$$

What fraction of the class were not late?

$$\frac{3}{5}$$

How many seconds are in 12 minutes?

$$12 \times 60 = 720$$

How many seconds are in 24 minutes?

$$1440$$

The population of a country is 9 million.

Write 9 million in figures.

$$9000000$$

22nd NovemberWork out $111 + 231 + 109$

$$\begin{array}{r} 111 \\ 231 \\ + 109 \\ \hline 451 \end{array}$$

Work out 417 divided by 3.

$$\begin{array}{r} 139 \\ 3 \overline{)417} \\ \underline{30} \\ 117 \\ \underline{90} \\ 27 \\ \underline{27} \\ 0 \end{array} \quad 139$$

Write down the first five multiples of 6.

6 12 18 24 30

Write down all the factors of 16.

1 2 4 8 16



What type of angle is shown?

Reflex

List the square numbers between 10 and 50.

16 25 36 49

List the prime numbers between 30 and 40.

31, 37

Rayan buys a packet of 40 sweets.

25% of them are red. 10

Work out 25% of 40

$$40 \div 4 = 10$$

 $\frac{3}{5}$ of them are green.Work out $\frac{3}{5}$ of 40.

$$\begin{array}{l} \frac{3}{5} \text{ of } 40 \\ 40 \div 5 = 8 \\ 8 \times 3 = \underline{24} \end{array}$$

23rd November

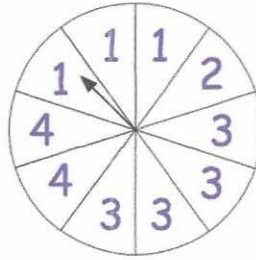
Write the value of the 5 in the number

7563

500

Shown is a fair spinner.

What is the probability that the spinner lands on a 3?

 $\frac{2}{5}$ 

Michelle is making chocolate cakes.
Each cake needs 300g of chocolate. ²⁴⁰⁰
Michelle has 2.4kg of chocolate.

How many chocolate cakes can Michelle make?

8

3894 + 124

$$\begin{array}{r} 3894 \\ + 124 \\ \hline 4018 \end{array}$$

4018

Write 0.017 as a fraction

 $\frac{17}{1000}$

24th NovemberFind $\frac{1}{3}$ of 18

$18 \div 3$

6

Find $\frac{4}{7}$ of 56

$56 \div 7 = 8$

$8 \times 4 = 32$

32

At a Bath Rugby match, there were 13,512 spectators.

Write 13,512 in words.

thirteen thousand, five hundred and twelve.

Olivia says "the product of an odd number and an even number is always even."

Show she is correct

$7 \times 4 = 28$

Find 20% of 250

$10\% - 25$

$20\% - 50$

50

Write these in order, smallest first

0.06

 $\frac{1}{2}$

4%

0.1

4%, 0.06, 0.1, $\frac{1}{2}$

25th NovemberWork out 7×23

$$\begin{array}{r} 23 \\ \times 7 \\ \hline 161 \end{array}$$

Work out $1284 - 311$

$$\begin{array}{r} 1284 \\ - 311 \\ \hline 973 \end{array}$$



Convert 8 centimetres into millimetres

80mm

Convert 120 millimetres into centimetres

12cm

Complete these fractions to make each

equivalent to $\frac{5}{6}$

$$\frac{15}{\boxed{18}} \quad \frac{\boxed{}}{36} \quad \frac{70}{\boxed{}}$$

$$\frac{15}{18} \quad \frac{30}{36} \quad \frac{70}{84}$$

Elena buys 5 books.

Each book costs £7.49

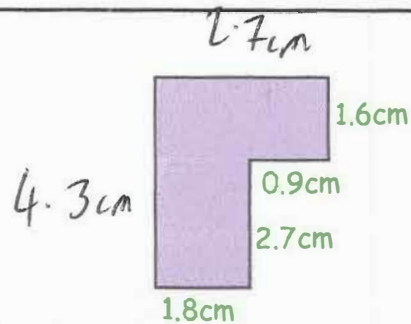
How much money does she spend?

$$\begin{array}{r} 749 \\ \times 5 \\ \hline 3745 \end{array}$$

£37.45

Find the perimeter of this shape.

14cm



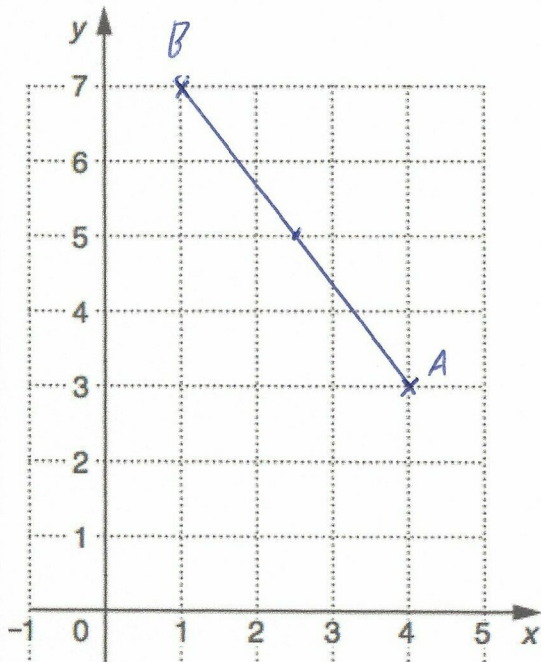
26th November

Write 394 in words.

three hundred and ninety four

Write **twelve thousand and fourteen** in figures.

12014



Plot the coordinate A (4, 3)

Plot the coordinate B (1, 7)

C is the midpoint of AB.

Write down the coordinates of C.

(2.5, 5)

Write 50:400 as a ratio in its simplest form

1:8

The probability that a train is late is 0.3

What is the probability that the train is not late?

0.7

27th November	
<p>A pen costs £2.65. Thomas pays with a £5 note.</p> <p>Work out how much change he should receive.</p>	$£2.35$
<p>Work out</p> 0.09×100 9	<p>Work out</p> $920 \div 1000$
<p>3 5 2 8</p> <p>Shown are four discs, each with a digit written on it.</p>	<p>Using all four digits shown, create the smallest possible four digit number.</p> 2358
<p>Using all four digits shown, create the largest possible four digit number.</p> 8532	<p>Using all four digits shown, create the smallest possible odd four digit number.</p> 2385
<p>Work out 50% of £320</p> $£160$	<p>Work out 10% of £14</p> $£1.40$

28th November

9	8	2	<input type="checkbox"/>	19
9	4	6	<input type="checkbox"/>	19
7	7	4	<input type="checkbox"/>	18
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	56
25	19	12		

Find the row and column totals.

Simplify fully

$$\frac{21}{28} \quad \frac{3}{4}$$

4.2 - 1.82

$$\begin{array}{r} 3 \quad 1 \quad 1 \\ 4.20 \\ - 1.82 \\ \hline 2.38 \end{array}$$

Musa buys a ruler for 80p and two pencils.
Both pencils cost the same price.

Musa pays with a £10 note and receives £7.70 change.

How much does one pencil cost?

$$10 - 7.70 = \pounds 2.30$$

$$230 - 80 = 150$$

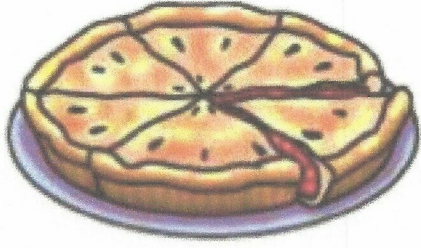
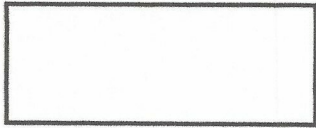
$$150 \div 2 = 75p$$

James is running in a 5 kilometres race

He has run 300 metres. How much further, in metres, must he run?

$$5000 - 300 = 4700$$

$$4700m$$

29th November	
<p>Harry buys a motorcycle for £2000. He pays for it over 4 equal monthly payments.</p> <p>How much does he pay each month?</p>	<p style="text-align: center;">£500</p>
<p>A pie is cut into 6 equal slices. One slice is eaten.</p> <p>What fraction is left?</p>	 <p style="text-align: center;">$\frac{5}{6}$</p>
<p>Write down the 15th odd number</p> <p>1 3 5 7 9 11 13 15 17 19 21 23 25 27 (29)</p>	<p style="text-align: center;">29</p>
<p>The perimeter of the rectangle is 20cm.</p> <p>Find x</p> <p style="margin-left: 40px;">$2.4 + 2.4 = 4.8$ $20 - 4.8 = 15.2$ $x = 7.6$</p>	
<p>There are 8200 fans at a rugby match between Bath and Newcastle.</p> <p>3600 of the fans are female. The rest of the fans are male.</p> <p>$\frac{1}{4}$ of the male fans support Newcastle.</p>	<p>Work out how many male fans support Newcastle.</p> <p style="margin-left: 40px;">$8200 - 3600 = 4600$ male fans $4600 \div 4 = \underline{\underline{1150}}$</p>

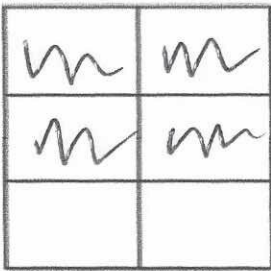
30th November

Convert 8km into metres

8000 m

Convert 3200g into kilograms

3.2 kg

Shade in $\frac{2}{3}$ of the grid.

Round 209,987 to the nearest 1,000

210,000

Anthony has £20.

A snack costs 45p each.

He buys as many snacks as possible.

How many snacks does he buy?

$$\begin{array}{r} 0044.44\dots \\ 45 \overline{) 2000} \end{array}$$

44

How much change does he get?

20p