Ciaran spends £16 altogether on the Dodgems and the Rollercoaster. He goes on the Rollercoaster four times.

How many times does he go on the Dodgems?

Harry makes a sequence of numbers starting with 400. He subtracts 225 each time.

Write the next two numbers:

Circle two decimals that have a difference of 0.05:

0.1  0.35  0.45  0.5  0.6  0.85
<table>
<thead>
<tr>
<th>2nd September</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simplify $\frac{9}{15}$</td>
</tr>
</tbody>
</table>

Toby makes a pattern with the rectangles above

<table>
<thead>
<tr>
<th>55cm</th>
<th>20cm</th>
</tr>
</thead>
</table>

Calculate the length of A

Calculate the length of B

Write all the numbers between 50 and 150 that are factors of 240
### 3rd September

<table>
<thead>
<tr>
<th>$\frac{1}{4} \times 8$</th>
<th>$10% \text{ of } 18$</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Grid of Dots" /></td>
<td><img src="image" alt="Points A and B" /></td>
</tr>
</tbody>
</table>

Here is a grid of dots

Points A and B are joined by straight lines.

Draw a line to join point A to another dot on the grid so that the two lines make a right angle

Draw a line parallel to AB

Here are six number cards

$\frac{1}{2} \quad \frac{1}{2} \quad 1 \quad 2 \quad \frac{1}{2} \quad \frac{3}{2}$

Use three of the number cards to make this calculation correct.

$\left( \square + \square \right) \times \square = 8$
**4th September**

<table>
<thead>
<tr>
<th>2 0 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>× 3 7</td>
</tr>
</tbody>
</table>

\[
10 \frac{3}{4} = \frac{\square}{4}
\]

A cupcake with a cherry costs 10p more than a cupcake without a cherry. Amber bought two of each cake. They cost £2 altogether.

What is the cost of a cupcake with a cherry?

Two of the fractions are **equivalent**

Circle them

\[
\frac{2}{3} \quad \frac{12}{15} \quad \frac{9}{12} \quad \frac{16}{20} \quad \frac{6}{10}
\]

Jacob chooses a **square number**

He rounds it to the nearest hundred.

His answer is 100.

Write down all the possible square numbers Jacob could have chosen.
5th September

\[ 5 \div 10 \]

\[ \frac{19}{20} - \frac{4}{5} \]

Seb has some rectangular and circular tiles

He makes these patterns with them

For each pattern, put a tick if it has a line of symmetry or a cross if it does not.

Here is a grid of 20 squares.

What percentage of the grid is shaded?
### 6th September

#### Problem 1

\[
50\% = \frac{\Box}{\Box}
\]

#### Problem 2

\[
5.405 - 1.98
\]

---

#### The perimeter of this rectangle is 3 metres

Calculate the width of the rectangle

---

#### Here is a triangle on a square grid.

The triangle is translated so that point A moves to point B.

Draw the triangle in the new position.

---

#### Draw a parallelogram on the grid
### 7th September

<table>
<thead>
<tr>
<th>$9^2$</th>
<th>$20%$ of 50</th>
</tr>
</thead>
</table>

Orla has three blocks.

Blocks A and B together weight the same as block C.

The three blocks weigh 1.9kg altogether.

Block A weighs 400g.

How much does block B weigh?

---

Find the size of angle $x$
Lauren has some identical rectangles. They are 23cm long and 5cm wide. She uses four rectangles to make the larger rectangle below.

What is the perimeter of the large rectangle?

What is the area of the large rectangle?

Write these numbers in order of size, starting with the smallest.

0.15 0.5 0.051 0.2 0.185
### 9th September

<table>
<thead>
<tr>
<th>Simplify</th>
<th>[\frac{10}{16}]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| 6 | 2 | 3 | 5 | 2 |

**Tick each multiplication that has an answer less than 1000.**

- \(9 \times 10 \times 11\)
- \(9 \times 9 \times 13\)
- \(14 \times 6 \times 11\)
- \(19 \times 18 \times 3\)
- \(5 \times 5 \times 41\)

---

Kate has £12
James has £24.20

James gives Kate some money so that they now have the same amount of money.

How much does James give Kate?
<table>
<thead>
<tr>
<th>10th September</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>50% of 130</strong></td>
</tr>
</tbody>
</table>

Jessica goes on a big wheel at a funfair. The graph shows her height above the ground as the wheel turns.

How long from the start does it take for Jessica to reach a height of 50 metres?

What was the greatest height Jessica reached?

Jodie has a bag of 3 red and 5 green marbles.

Jodie adds five red and five green marbles to the bag.

What fraction of the marbles in the bag are now red?
11th September

501 \times 100

\frac{7}{8} \text{ of } 9,216

Dara scores 20 out of 80 in a test. Hannah scores 20% in the same test.

Who has the higher score?

Shown are 12 identical triangles

Find the size of angle x

Find the size of angle y
12th September

100 ÷ 1,000

$\frac{3}{5} - \frac{1}{25}$

||

The cost of hiring a minibus is £3 for each mile.
8 friends go on a 220 mile journey.
They share the cost equally
How much does each person pay?

<table>
<thead>
<tr>
<th>Not square</th>
<th>Multiple of 8</th>
<th>Square</th>
<th>Not a multiple of 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>81</td>
<td>13</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>64</td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

Norman chooses two numbers.
He multiplies the two numbers and divides the result by 2.
His answer is 117.
One of Norman's numbers is 9.

What is Norman's other number?
### 13th September

<table>
<thead>
<tr>
<th>$-13 + 58$</th>
<th>$5\frac{3}{4} = \boxed{\phantom{0}}$</th>
</tr>
</thead>
</table>

- A number in Roman numerals is CCV
  - Write this number in figures

- Work out the mean of
  - $4 \ 3 \ 9 \ 2 \ 1 \ 5 \ 8 \ 3 \ 7 \ 7$

- How many hours are there in 2 weeks?
This graph shows the depth of a river during the summer.

What is the depth of the river after 10 days?

How long does it take the river to go from a depth of 32cm to 15cm?

A badge costs £1.40

Mr Davies buys 12 badges.

How much does it cost him?
Charlie makes 100 chocolate apples to sell at a fair to raise money for charity.

Each chocolate apple needs:
1 apple
1 stick
100g of chocolate.

He pays the following prices:

<table>
<thead>
<tr>
<th>Item</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 apples</td>
<td>£2.50</td>
</tr>
<tr>
<td>1kg chocolate</td>
<td>£4.75</td>
</tr>
<tr>
<td>25 sticks</td>
<td>50p</td>
</tr>
</tbody>
</table>

Charlie sells each chocolate apple for £1. How much money is left to go to charity?

Which two rectangles fit together to make a square?
16th September

\[
\frac{12}{12} = \frac{35}{60}
\]

50% of 29

Here is a shaded square

Write down the coordinates of the point B

Circle any of the points that are outside the square

(1, 8) (8, 1) (−1, 3) (3, −1)

The rule to get each number in a sequence is

subtract the previous number from 400, then divide by 2

Write the two missing numbers

\[
\square 180 110 145 \square
\]
5,040 × 1,000

0.8 × 9

Phoebe has some rectangles. They each measure 41cm by 12cm

She makes this design with six of the rectangles.

Work out the lengths of x and y.

Circle all the numbers below that belong in the shaded part of the number line.
Conor has three discs. Each disc has an 8 on one side and a 9 on the other.

He flips all discs and adds together the three scores.

How many different totals can he get using the three discs?

Put the four masses below in order, starting with the heaviest.

- 600 kilograms
- 0.5 tonnes
- 0.8 kilograms
- 900 grams

75% of 120
There are 1,400 fans at a rugby match between Bangor and Limavady.

25% of the fans support Limavady.

How many fans support Bangor?

Draw a 100° angle

Work out the size of angle w
20th September

Simplify \( \frac{12}{16} \) 

\[ \times \begin{array}{c} 9 \ 6 \\ \times \ 4 \ 9 \end{array} \]

\( \frac{3}{5} \) of a fruit punch is orange juice.

What percentage of the fruit punch is orange juice?

Work out the size of angle \( y \)

Two 2-digit numbers multiply to make 204

Write the two missing numbers

\[ \square \ \times \ \square = 204 \]
### 21st September

| **156 × 12**        | **\[
| \frac{1}{4} + \frac{1}{8} + \frac{3}{16}\]** |
|----------------------|-----------------------------------------------|
| ![Image](image1.png) | ![Image](image2.png)                        |

The cost of hiring a school hall is found by

<table>
<thead>
<tr>
<th><strong>£35 \times number of hours</strong></th>
</tr>
</thead>
</table>

Carlo hired the hall and the total cost was £280

<table>
<thead>
<tr>
<th><strong>How long did Carlo hire the hall for?</strong></th>
</tr>
</thead>
</table>

Sian has two strips of paper. Each strip is 60cm long. One strip is divided into six equal parts and the other is divided into five equal parts.

<table>
<thead>
<tr>
<th><strong>What is the total length of Sian's shape?</strong></th>
</tr>
</thead>
</table>

Sian uses the two strips to make this shape

| ![Image](image3.png) | ![Image](image4.png) |

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This graph shows the temperature in a town from 1pm until 11pm.

At what time was the temperature half the temperature at 1pm?

Estimate the temperature at 5pm.

The numbers in this sequence increase by 9 each time:

1 10 19 28 37

The sequence continues in the same way.

Will 900 be in the sequence?

\[-50 + 108\]

75\% of 480
| 23rd September |  
|---|---|
| $7^2$ | $rac{2}{9} \times 4$ |
| | |

Nicola takes part in a quiz.
Each correct answer is worth 150 points.
Each incorrect answer is worth $-90$ points.
Nicola answers 3 questions correctly and 7 questions incorrectly.
How many points does Nicola finish with?

Round 818,725 to the nearest 10,000

Round 818,725 to the nearest 1,000

Write the two missing digits to make this **long multiplication** correct

$$
\begin{array}{c}
9 \ \underline{\underline{\phantom{0}}} \\
\times \underline{\underline{8}} \\
7 \ 3 \ 6 \\
4 \ 6 \ 0 \ 0 \\
5 \ 3 \ 3 \ 6
\end{array}
$$
24th September

50,405 ÷ 100

59 × 19

8500 millilitres = [ ] litres

920 grams = [ ] kilograms

Catherine bought three cups of tea.
She pays with a £10 note.
Her change is £2.95
What is the cost of four cups of tea?

<table>
<thead>
<tr>
<th>Departure times</th>
<th>Antrim</th>
<th>Randalstown</th>
<th>Ballymena</th>
<th>Ballycastle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12:30</td>
<td>12:45</td>
<td>13:01</td>
<td>13:39</td>
</tr>
<tr>
<td></td>
<td>13:00</td>
<td>13:15</td>
<td>13:31</td>
<td>14:09</td>
</tr>
<tr>
<td></td>
<td>14:00</td>
<td>14:15</td>
<td>14:31</td>
<td>15:09</td>
</tr>
<tr>
<td></td>
<td>16:00</td>
<td>16:15</td>
<td>16:31</td>
<td>17:09</td>
</tr>
</tbody>
</table>

What is the latest bus he can take from Antrim?

Riley is in Antrim and wants to be in Ballymena by 15:00
25th September

<table>
<thead>
<tr>
<th>Name: ____________</th>
<th>Primary 5-a-day</th>
<th>Gold 🎁</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Circle the prime numbers</th>
<th>508 × 9 = 392 + □</th>
</tr>
</thead>
<tbody>
<tr>
<td>17 27 37 47 57</td>
<td></td>
</tr>
</tbody>
</table>

Jessica buys a book and a pen for £5.50

Calculate the cost of a book

Jaymin buys the same book and 3 pens for £9.50

Here is a regular octagon with two vertices joined to make the line AB.

Join two vertices to draw a line **perpendicular** to AB

---

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26th September

<table>
<thead>
<tr>
<th>6 9</th>
<th>5 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Aidan earns £15 an hour.  
He works 40 hours in one week.  
He gives \( \frac{2}{5} \) of his total pay to his mum.

How much money does he give to his mum?

Draw a 55° angle

Find the area of this compound shape

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27th September

\[ \frac{1}{8} = \frac{12}{\Box} \]

\[ 9^3 \]

This graph shows the number of puffins living on an island

How many puffins lived on the island in 2007?

In what year did the lowest number of puffins live on the island?

Work out \( \frac{3}{4} \) of £19
### 10% of 7,000

<table>
<thead>
<tr>
<th>1</th>
<th>0</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>🍚</td>
<td>2</td>
<td>4</td>
</tr>
</tbody>
</table>

### Ella is making rice

The recipe says he needs 250 grams of rice for 3 people.

How many kilograms of rice does she need for 9 people?

### Draw a rectangle on the grid that has an area twice the area of the triangle.

| The factors of 14 have a sum of 24. |
| Show the factors of 15 also have a sum of 24. |

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29th September

5.7 ÷ 10

Here is a grid of regular hexagons

The shaded shape has an area of 3 hexagons and perimeter of 12cm.

Draw another shape on the grid which has an area of 4 hexagons and a perimeter of 18cm

Kate makes a sequence of numbers.

Her rule is to add the same amount each time

Write in the missing numbers

-3  

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### 30th September

**Find the mean of this set of numbers**

13, 15, 27, 30, 35

**Emily is drawing a kite on the grid. She plots three points.**

\((-4, 1)\) \((2, -2)\) \((3, 1)\)

**Plot these points**

**Emily has one more point to plot.**

Write down the coordinates of the fourth vertex of the kite

---

**Multiplication:**

\[
\begin{array}{cc}
8 & 4 \\
\times & 6 & 7 \\
\hline
21 & \_ & \_ & \_ & \_ & \% \\
\hline
25 & \% \\
\end{array}
\]