1st August

\[ 10^{\frac{2}{3}} = 100 \]

\[ \frac{7}{8} + \frac{1}{24} \]

Write the missing values

\[ \frac{4}{5} = \frac{12}{\square} = \frac{\square}{60} \]

Here is a rectangle on a grid.

The rectangle is translated so that the point A moves to (0, 0).

Draw the rectangle in its new position.
2nd August

25% of 112

\[
\frac{3}{4} + \frac{1}{2}
\]

Find the area of triangle D

Reflect D in the x-axis

Here is part of Olivia's gas bill.

Each unit costs 9p

<table>
<thead>
<tr>
<th>Old reading</th>
<th>1695 units</th>
</tr>
</thead>
<tbody>
<tr>
<td>New reading</td>
<td>2104 units</td>
</tr>
</tbody>
</table>

Work out how much Olivia will have to pay
<table>
<thead>
<tr>
<th>3rd August</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>750 × 100</td>
<td>2 $\frac{5}{8} = \square \div 8$</td>
</tr>
<tr>
<td>Work out the cost of 150g of cheese</td>
<td></td>
</tr>
<tr>
<td>List all the common multiples of 6 and 7 under 100</td>
<td></td>
</tr>
<tr>
<td>Three single-digit numbers multiply to make 648</td>
<td></td>
</tr>
<tr>
<td>Write the missing numbers</td>
<td>$\square \times \square \times \square = 648$</td>
</tr>
</tbody>
</table>
4th August

<table>
<thead>
<tr>
<th>25% = [ \text{□} ]/[ \text{□} ]</th>
<th>-100 + 32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circle two different numbers that multiply together to make 10 million.</td>
<td></td>
</tr>
<tr>
<td>10 100 1,000 10,000 100,000</td>
<td></td>
</tr>
<tr>
<td>An adult ticket for a museum is £12.00</td>
<td></td>
</tr>
<tr>
<td>A child ticket is 25% cheaper than an adult ticket.</td>
<td></td>
</tr>
<tr>
<td>How much is a child ticket?</td>
<td></td>
</tr>
<tr>
<td>Find the size of angle x</td>
<td></td>
</tr>
</tbody>
</table>

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### 5th August

<table>
<thead>
<tr>
<th>Simplify $\frac{16}{24}$</th>
<th>305 × 1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

A shape is made from two rectangular tiles like this. Work out the area of the shape.

This is the shape. Work out the perimeter of the shape.
6th August

| 14² | \( \frac{7}{15} - \frac{1}{5} \) |

Shown is a shape made from three identical squares and three identical rectangles. Calculate the perimeter

Two sides of a parallelogram have been drawn. Complete the parallelogram

How many lines of symmetry does the parallelogram have?
### 7th August

<table>
<thead>
<tr>
<th>50% of 392</th>
<th>56,000 − 1,945</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Work out the size of the missing angle</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="imageURI" alt="Diagram" /> 96° 132° x</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>A basketball team plays 5 matches</th>
</tr>
</thead>
<tbody>
<tr>
<td>The number of points they score in each match is 58, 41, 57, 49, 55</td>
</tr>
<tr>
<td>Work out the mean number of points scored</td>
</tr>
</tbody>
</table>

| A snowboarder completes 5 somersaults in a jump. |
| How many degrees does she turn through in the jump? |

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8th August

\[-16 + 7\]

\[\frac{11}{3} = 3 \frac{2}{3}\]

Each cube has a volume of \(1cm^3\)

Work out the volume of the cuboid

Some children take a test. The pass mark is 75%
There are 20 marks in the test

<table>
<thead>
<tr>
<th>Tommy</th>
<th>14 marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grace</td>
<td>17 marks</td>
</tr>
<tr>
<td>Megan</td>
<td>15 marks</td>
</tr>
<tr>
<td>Lewis</td>
<td>18 marks</td>
</tr>
<tr>
<td>Orla</td>
<td>16 marks</td>
</tr>
</tbody>
</table>

Write down the names of the students who passed the test?

What fraction of the students passed the test?
| **9th August** |  
|----------------|----------------------------------|
| $\frac{3}{11} \times 4$ | $20^3$ |

17,800 people watched a match between Rovers and City.

10% of the fans support City

How many fans support Rovers?

Draw a $70^\circ$ angle

Harry spent $\frac{1}{3}$ of his pocket money on a ticket for a football match.

He spent $\frac{1}{6}$ of his pocket money on a scarf

What fraction of his pocket money has Harry spent?
10th August

-460 + 190

\[
\frac{3}{8} + \frac{1}{24}
\]

These patterns are made of sticks

Pattern 1  Pattern 2  Pattern 3

Draw Pattern 4

Find the number of sticks in Pattern 6

20 identical books are placed in a row on a shelf

9 books are taken away from the row

How long is the row now?

180cm
A bottle of cola holds 3 litres.

How many 250 millilitre glasses can be poured from the bottle?

Over 20 days in February, it rained on 14 days.

What fraction of the days were rainy?
Simplify your answer

Find the area of this triangle

\[ \frac{3}{5} = \boxed{\%} \]

\[ 936 \div 8 \]

\[ % \]

\[ 3 \times 5 = 936 \div 8 \]

\[ \text{Area of triangle} = \frac{1}{2} \times \text{base} \times \text{height} \]

\[ = \frac{1}{2} \times 7 \times 4 \]

\[ = 14 \text{ cm}^2 \]
### 12th August

<table>
<thead>
<tr>
<th>0.4 × 1,000</th>
<th>33 × 66</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Blank]</td>
<td>[Blank]</td>
</tr>
</tbody>
</table>

#### Arrange in order, smallest to largest

| 60% | $\frac{1}{2}$ | 0.3 | $\frac{3}{4}$ | 0.4 |

#### Write down the number that is one thousand less than five million

The picture shows a shape made with cubes which each have a volume of $1cm^3$

Find the volume of the shape
13th August

<table>
<thead>
<tr>
<th>4</th>
<th>100 × 0.054</th>
</tr>
</thead>
<tbody>
<tr>
<td>( \frac{4}{x} = \frac{44}{121} )</td>
<td></td>
</tr>
</tbody>
</table>

Georgina buys four sandwiches. She pays with a £20 note. This is her change:

How much is one sandwich?

A farmer has a field that is 200 metres long and 60 metres:

Work out the area of the field:

Sophie has £2.22. Robert has 90p.

How much money should Sophie give Robert so that they have the same amount of money?
14th August

<table>
<thead>
<tr>
<th>6²</th>
<th>[\frac{9}{14} - \frac{1}{2}]</th>
</tr>
</thead>
</table>

Write down all the common multiples of 3 and 7 that are less than 50.

Square B has been translated to Square A

Complete this sentence

Square B has been translated

- squares to the left and
- squares down

Translate square A 2 squares left and 2 squares upwards
<table>
<thead>
<tr>
<th>Date</th>
<th>Exercises</th>
</tr>
</thead>
<tbody>
<tr>
<td>15th August</td>
<td>[4.7 + 3.82 + 0.8] [2,772 \times 6]</td>
</tr>
<tr>
<td></td>
<td>Reflect triangle B in the x-axis</td>
</tr>
<tr>
<td></td>
<td>Plot the coordinate ((-1, 0))</td>
</tr>
<tr>
<td></td>
<td>A theatre as 36 rows. There are 21 seats in each row.</td>
</tr>
<tr>
<td></td>
<td>During a show at the theatre, there are 90 empty seats.</td>
</tr>
<tr>
<td></td>
<td>Work out how many people are watching the show</td>
</tr>
</tbody>
</table>

\[4.7 + 3.82 + 0.8\] = 9 
\[2,772 \times 6\] = 16,632 

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### 16th August

<table>
<thead>
<tr>
<th>Simplify $\frac{24}{30}$</th>
<th>$132 \div 12$</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Grid with shape" /></td>
<td><img src="image2.png" alt="Grid with shape" /></td>
</tr>
</tbody>
</table>

Paul draws this shape on a grid

He turns his grid one quarter turn anticlockwise

Draw the shape in its new position after the turn

Clara runs 1.3 kilometres every day. Work out how far Clara runs in one week

Give your answer in metres
### 17th August

<table>
<thead>
<tr>
<th>10% of 3,200</th>
<th>1,140 ÷ 20</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Rectangle" /></td>
<td><img src="image2.png" alt="Rectangle" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5 children take part in a race. Their times are:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jonah 19.23 seconds</td>
</tr>
<tr>
<td>Noah 19.4 seconds</td>
</tr>
<tr>
<td>Jeremy 19.09 seconds</td>
</tr>
<tr>
<td>David 19.155 seconds</td>
</tr>
<tr>
<td>Alan 19.38 seconds</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>The top three children win gold, silver and bronze medals.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Who won the silver medal?</td>
</tr>
</tbody>
</table>

Find the area of this shape

![Shape](image3.png)

How many seconds are there in an hour?

How many hours are there in March?
18th August

0.9 = ☐ ☐

Plot the coordinates (−4, −4), (−4, 1) and (2, 1)

Find the area of the triangle

Bonbons cost 60p per 100g
Strawberry laces cost 90p per 100g

Sam buys 200g of Bonbons and 150g of strawberry laces

How much does he pay altogether?
<table>
<thead>
<tr>
<th>19th August</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>60 ÷ 1,000</strong></td>
<td><strong>( \frac{7}{20} + \frac{2}{5} )</strong></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Place these numbers in the correct position on the Venn diagram:

45 48 50 55

These two rectangles have the same area.
Find the length of the second rectangle.

9 cm 8 cm 6 cm

Olivia chooses a whole number
She multiples it by 3 and then adds 2
She then divides this result by 4.
Her answer is 3.5

What was the number she started with?

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20th August

<table>
<thead>
<tr>
<th>Expression</th>
<th>Expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>$0.5 \div 100$</td>
<td>$15 \times 26 \times 7$</td>
</tr>
</tbody>
</table>

A teacher asks some girls and boys what they wanted to do on a school trip

What percentage of girls wanted to go to the zoo?

7 boys wanted to go to the cinema.

Estimate how many boys wanted to go bowling.

Four friends are in a race.

- Alice is 4 metres ahead of Barry
- Clara is 9 metres behind Dylan
- Barry is 5 metres behind Dylan

Write the names of the runners in order, starting with the friend who is furthest ahead
21st August

\[ \frac{15}{16} = \square \frac{}{16} \]

\[ 100,520 - 38,631 \]

Here is part of a number line. It is divided into equal sections.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
</tr>
</thead>
<tbody>
<tr>
<td>-200</td>
<td>0</td>
<td>200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Write the letter of the section where each of these numbers belongs.

<table>
<thead>
<tr>
<th>number</th>
<th>section</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>G</td>
</tr>
<tr>
<td>154</td>
<td></td>
</tr>
<tr>
<td>-121</td>
<td></td>
</tr>
</tbody>
</table>

Work out \( \frac{3}{4} \) of £9

Kate makes a sequence of numbers.
Her rule is to add the same amount each time
Write in the missing numbers
### 22nd August

<table>
<thead>
<tr>
<th>$7^2$</th>
<th>$500 \times 30$</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Eva bought three cups of tea.
She pays with a £20 note.
Her change is £14.75

What is the cost of **five** cups of tea?

Joshua has £4 to spend on oranges.
Small oranges cost 15p each
Large oranges cost 25p each

He decides to buy only small oranges or only large oranges.

How many **more** small oranges than large oranges can he buy for £4?

For each pattern put a tick if it has a line of symmetry. Put a cross if it does not.
<table>
<thead>
<tr>
<th>23rd August</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>17 × 9 × 12</strong></td>
</tr>
<tr>
<td><strong>[\frac{11}{18} + \frac{1}{6}]</strong></td>
</tr>
</tbody>
</table>

| Aidan earns £18 an hour. He works 23 hours in one week. He gives \(\frac{1}{10}\) of his total pay to his mum. |
| How much money does he give to his mum? |

| Emily is drawing a rhombus on the grid. She plots three points. \((-4, 1)\) \((-2, -1)\) \((2, 1)\) |
| Plot these points |

| Emily has one more point to plot. Write down the coordinates of the fourth vertex of the rhombus |

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24th August

| $8^2 = 64$ | $\frac{15}{45} = \boxed{\phantom{0}}$ |

Martin is playing a game

He throws 8 balls at a target, one at a time.

Each hit is worth 9 points
Each miss is worth −5 points

Martin hits the target with 5 of the balls and misses with the rest.
How many points does Martin score in total?

Laura throws 3 balls at the target, one at a time.
Is it possible for Laura to score 0 points in total?

Write down all the square numbers between 70 and 110

| $\boxed{\phantom{0}}^2$ | $\boxed{\phantom{0}}^2$ | $\boxed{\phantom{0}}^2$ | $\boxed{\phantom{0}}^2$ | $\boxed{\phantom{0}}^2$ | $\boxed{\phantom{0}}^2$ | $\boxed{\phantom{0}}^2$ |

- 81
- 100
- 121
- 144
- 169
- 196
- 225

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25th August

$484.5 \div 100$

$\frac{3}{4} - \frac{5}{16}$

Measure this angle

The table shows the number of people living in three different countries.

<table>
<thead>
<tr>
<th>Country</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>36,624,199</td>
</tr>
<tr>
<td>Mexico</td>
<td>129,684,378</td>
</tr>
<tr>
<td>Turkey</td>
<td>81,127,417</td>
</tr>
</tbody>
</table>

What is the difference between the numbers of people living in Mexico and Canada.

$2.5$ tonnes = $\underline{\hspace{2cm}}$ grams
26th August

<table>
<thead>
<tr>
<th>90,801 − 1,955</th>
<th>$1 \frac{3}{4} \times 2$</th>
</tr>
</thead>
</table>

The square A is translated 6 left and 2 up.
Draw the square in its new position.

Plot the point $(2, -4)$.

A square number and a multiple of 3 have a total of 90.

What are the two numbers?

\[
\square + \square = 90
\]

square number    multiple of 3
0.45 = ☐ ☐

☐^3 = 125

Write down three factors of 30 that are not factors of 40.

☐ ☐ ☐

Timothy saves £26 a week

Calculate how much money Timothy will save in one year

Write the two missing digits to make this long multiplication correct

\[
\begin{array}{c}
7 \ \text{☐} \\
\times \ \text{☐} \ 9 \\
\hline
\text{6} \ \text{8} \ \text{4} \\
\text{2} \ \text{2} \ \text{8} \ \text{0} \\
\hline
\text{2} \ \text{9} \ \text{6} \ \text{4}
\end{array}
\]
Here is part of a timetable for a bus

<table>
<thead>
<tr>
<th>Location</th>
<th>Time</th>
<th>Time</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Southville</td>
<td>09 18</td>
<td>10 38</td>
<td>12 05</td>
</tr>
<tr>
<td>Leek</td>
<td>09 28</td>
<td>10 48</td>
<td>------</td>
</tr>
<tr>
<td>Milton</td>
<td>09 41</td>
<td>11 01</td>
<td>------</td>
</tr>
<tr>
<td>Newtown</td>
<td>09 49</td>
<td>11 09</td>
<td>------</td>
</tr>
<tr>
<td>Red Island</td>
<td>09 55</td>
<td>11 15</td>
<td>12 36</td>
</tr>
<tr>
<td>Sandville</td>
<td>10 13</td>
<td>11 33</td>
<td>------</td>
</tr>
<tr>
<td>Bakerstown</td>
<td>10 31</td>
<td>11 51</td>
<td>13 00</td>
</tr>
</tbody>
</table>

A bus leaves Southville at 12:05

How long does the journey to Red Island take?

Anthony arrives at the Leek bus stop at 09:31
He waits for the next bus to Sandville

How many minutes should he wait?

At what time should Anthony arrive at Sandville?

Here is a number written in Roman numerals

CCXLIII

Write the number in figures
**29th August**

<table>
<thead>
<tr>
<th>10% of 740</th>
<th>0.83 + 1.5 + 0.606</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>36.4</strong></td>
<td><strong>2.936</strong></td>
</tr>
</tbody>
</table>

In each box, circle the number that is **smaller**

- \(\frac{1}{2}\), 1.3
- \(\frac{3}{4}\), 2.8

Write each number in its correct place on the diagram

- 35
- 36
- 37
- 38

<table>
<thead>
<tr>
<th>Square numbers</th>
<th>Even numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1(\frac{9}{100}), 1.1</td>
<td>4(\frac{3}{5}), 4.5</td>
</tr>
</tbody>
</table>

Large cakes cost £5.75 each  
Small cakes cost £3.80 each  

Five children together buy three large cakes and one small cake.  
They share the cost equally.

**How much does each child pay?**
30th August

Simplify \( \frac{14}{16} \)

9376 ÷ 8

Write a number that could go in section B

<table>
<thead>
<tr>
<th>multiple of 5</th>
<th>not a multiple of 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>square number</td>
<td>A</td>
</tr>
<tr>
<td>not a square number</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>not a square number</td>
</tr>
</tbody>
</table>

Miss Jones prepares a picnic for her class. Each child will get:

- 2 sandwiches
- 5 carrot sticks
- 7 grapes
- 1 drink

Altogether Miss Jones packs 40 sandwiches. How many grapes does she pack?

Work out the mean amount of money raised.

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31st August

0.9 × 10

68 × 23

Here are some nets

Which letter is the net of a cuboid?

Which letter is the net of a square-based pyramid?

Here are four digit cards

Use each digit card once to make the decimal number nearest to 40