1st June

\[6^2\]  

\[\frac{3}{4} - \frac{5}{8}\]

Write the missing values

\[\frac{3}{5} = \frac{9}{\square} = \frac{30}{\square}\]

There are 40 cars in a car park.  
The chart shows information about their colours

Tick the statements that are true

- There are more red than white cars
- The total number of black and white cars is 20
- 25\% of the cars are red
- There are less than 20 blue cars
<table>
<thead>
<tr>
<th>2nd June</th>
</tr>
</thead>
<tbody>
<tr>
<td>175 − 210</td>
</tr>
</tbody>
</table>

| Raheem is putting 50p coins into bags. | How many bags can Raheem fill? |
| Each bag holds 20 coins. | |
| He has 645 coins | |

| How many coins will be left over? | How much money does he have in total? |
| | |

| Two angles in a triangle are 80° and 50° | |
| Is the triangle isosceles? | YES  NO |
| Explain your answer | |
| 3rd June |
|------------------|------------------|
| 1,925 ÷ 7 | 10% of 60,500 |

<table>
<thead>
<tr>
<th>A house is 12 metres wide and 8 metres tall.</th>
<th>How wide is her model?</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Diagram of a house]</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>How many centimetres are in 12 metres?</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Kirsty makes a scale model of the house.</th>
<th>How wide is her model?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Her model is 16 centimetres tall</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Here is a number written in Roman numerals</th>
<th>Write the number in figures</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCCXI</td>
<td></td>
</tr>
</tbody>
</table>
4th June

\[ 3 \times \frac{3}{10} \]

\[ 75,390 + 16,998 \]

How many times larger is the area of Yorkshire than the area of Huntingdonshire?

<table>
<thead>
<tr>
<th>County</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yorkshire</td>
<td>15,000 km²</td>
</tr>
<tr>
<td>Huntingdonshire</td>
<td>1,000 km²</td>
</tr>
</tbody>
</table>

In June, Spencer collects 3, 4 or 5 strawberries from his greenhouse.

In the first 17 days, Spencer collects 76 strawberries.

What is the greatest number of strawberries that Spencer can collect in June?

Find three different prime numbers with a sum of 40.

\[ \text{prime number} + \text{prime number} + \text{prime number} = 40 \]
1.04 \times 1,000

Edward has drawn a 3-D shape.

His shape has 6 vertices.
It has 9 edges.
It has 5 faces.

What 3-D shape has Edward drawn?

Martin finished a 10 kilometre race in 47 minutes 13 seconds.

Dean finished 9 minutes 54 seconds after Martin.

How long did Dean take?

Calculate the size of angle x
### 6th June

<table>
<thead>
<tr>
<th>Simplify ( \frac{16}{28} )</th>
<th>( 8^3 )</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Change 0.43 kilograms to grams

Emily buys a car for £9,000

She pays a 25% deposit for the car.

She then pays the rest of the cost in 10 equal payments.

How much was each payment?

Measure the size of this angle

---

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7th June

\[ \frac{9}{27} = \frac{63}{1} \]

1,904 × 6

Four triangles have the same area.
Which triangle has a different area?

Find the area of triangle C

Write each number in the correct position on the diagram

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8th June

25% of 308

\[ \frac{1}{4} + \frac{7}{12} \]

Jonathan asked his friends which country they support in rugby. He has shown the results in a bar chart.

Jonathan has drawn the bar chart accurately, but he has forgotten to label the number of people.

Find the missing numbers

<table>
<thead>
<tr>
<th>Rugby Team</th>
<th>Number of people</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scotland</td>
<td></td>
</tr>
<tr>
<td>England</td>
<td></td>
</tr>
<tr>
<td>Wales</td>
<td></td>
</tr>
<tr>
<td>France</td>
<td>9</td>
</tr>
<tr>
<td>Ireland</td>
<td></td>
</tr>
<tr>
<td>Italy</td>
<td></td>
</tr>
</tbody>
</table>

Frank thinks of a whole number.
He multiples it by 6.
He rounds his answer to the nearest 10
The answer is 70

Write all the possible numbers that Frank could have started with

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9th June

13 \times 12

20\% \ of \ 120

Write down the coordinates of point A.

Dani uses coordinates A and B as two of the vertices of a right angled triangle.

What are the coordinates of the missing vertex?

Here are four numbers in Roman numerals

\text{XC} \quad \text{LXXV} \quad \text{CII} \quad \text{LVIII}

Write the numbers in order, starting with the \text{smallest}.
### 10th June

<table>
<thead>
<tr>
<th>( \frac{7}{15} - \frac{1}{5} )</th>
<th>( \Box^3 = 1,000 )</th>
</tr>
</thead>
</table>

A group of 9 friends go on a holiday.
The total cost of the holiday is £6534
How much does each person pay?

These two rectangles have the same area
Work out the width of the yellow rectangle

A box contains red, yellow and blue sweets.
In total there are 80 sweets.
20% of the sweets are yellow.
There are 6 more red sweets than yellow sweets.

What fraction of the sweets are blue?
There are 1,596 fans at a football match.

\[
\frac{3}{7} \text{ of the fans are children.}
\]

How many adults attended the football match?

Natalie travels from her home to London. She stopped and visited her friend Edward on the way.

How far was Natalie from home when she visited Edward?

How long did Natalie stop for?
12th June

\[ \Box^3 = 64 \]

\[ \frac{19}{20} - \frac{7}{10} \]

A box contains red, yellow and blue sweets. In total there are 80 sweets.

10% of the sweets are yellow. There are 6 more red sweets than yellow sweets.

What fraction of the sweets are blue?

Shape C is translated 1 right and 5 up

Draw the shape in its new position.

Label the new shape, D.

Shape D is translated 3 right and 3 down.

Draw the shape in its new position.

Label the new shape E.
13th June

30²

\[ 1 \times 5 \times 2 \]
\[ \times 3 \]
\[ \times 4 \]

Write these numbers in order, starting with the smallest:

0.78 0.506 0.64 0.097 1.001

Mr Smith puts up 7 shelves in his garage. Each shelf is 174cm long.

Work out the total length of wood Mr Smith needs for the 7 shelves.

Give your answer in metres.

A snowboarder completes 4 somersaults in a jump.

How many degrees does she turn through in the jump?
**14th June**

**Simplify** \( \frac{3}{15} \)

List the factors of 32.

A number in Roman numerals is LV

Write LV in figures

3 students sit a test. The total for the test is 80 marks.

Emily got 60\% of the 80 marks
Rebecca got \( \frac{5}{8} \) of the 80 marks
Roisin got 57 out of 40 marks

Put the students in order, starting with who scored the most marks
15th June

<table>
<thead>
<tr>
<th>25 \times 14 \times 5</th>
<th>75% \text{ of } 608</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>30% of the children in a class are left-handed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>There are 20 students in the class.</td>
</tr>
<tr>
<td>How many children are right-handed?</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Write down the first 3 prime numbers</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Here is a shape made from two identical squares and two identical rectangles.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work out the perimeter</td>
</tr>
</tbody>
</table>

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16th June

<table>
<thead>
<tr>
<th>80 ÷ 1,000</th>
<th>2 × $1\frac{1}{4}$</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Put these numbers in the correct place on the diagram

- 6
- 7
- 12
- 13
- 14

Circle two different numbers that multiply together to make one million.

- 100
- 1,000
- 10,000
- 100,000

Caleb thinks of a number

- He divides it by 4
- Then he adds 15.
- His answer is the same as his starting number.

What number did Caleb start with?
### 17th June

<table>
<thead>
<tr>
<th><strong>3/4 = 39</strong></th>
<th><strong>6.35 + 2.915 + 5.2</strong></th>
</tr>
</thead>
</table>

| 50% of a number is 30  |  |
| What is the number?    |  |

| Almonds cost £1.20 per 100 grams |  |
| What is the cost of 250 grams of almonds? |  |

| Cafe Red sells 3 sandwiches for £5.28  |  |
| Sandwich World sells 4 sandwiches for £7.00 |  |
| Which shop is better value for money? |  |
### 18th June

\[
\frac{1}{4} = \boxed{25\%}
\]

\[85 \times 41 = \boxed{3485}\]

Matt asked 28 people to see how they travelled to work.

Matt says, "exactly 10\% of the people in the survey said they travelled by train."

Explain why Matt is **wrong**

Write these numbers in order, starting with the smallest.

\[9.21\quad9.091\quad9.119\quad9.2\quad9.29\]

Three whole numbers have a mean of 30.

All the numbers are different.

Write down three possible numbers
Michael and Rosie each have a bottle of water.

Michael's bottle contains $1 \frac{3}{4}$ litres

Rosie's bottle contains 2.2 litres

How many more **millilitres** of water does Rosie have than Michael?

This shape is made from four identical curves

The perimeter of the shape is 32 centimetres.

A new shape is made out of curves of the same size

What is the perimeter of the new shape?
Here are 6 tiles

\[
\begin{array}{ccc}
9 & 7 & 8 & 9 & 7 & 0 \\
4 & 1 & 3 & 8 & 2 & 5 \\
8 & 4 & 5 & 2 & 2 & 5 \\
3 & 7 & 4 & 8 & 1 & 6 \\
\end{array}
\]

The tiles are placed on the grid below so that the column and row totals add up to the numbers shown.

The two shaded tiles have been placed on the grid for you.
Place the other four tiles onto the grid.

A box contains 3kg of rice

Laura uses 75 grams of rice for each meal. She uses all the rice.

How many meals did Laura make?
21st June

160 \times 1,000

Find the area of this triangle

Cheryl buys some cheese for £1.05

How many grams of cheese does she get?

Andrew has £80.20
Beth has £7.40

How much must Andrew give Beth so that they each end up with the same amount?
### Marcus has five coins.

Three of the coins add to £70p
Three of the coins add up to £2.20
All five coins add up to £3.70

### What are the coins that Marcus has?

- [ ]
- [ ]
- [ ]
- [ ]
- [ ]

### Zara has some identical rectangles.

She makes this shape using three of the rectangles

### What is the perimeter of Zara's shape?

The perimeter is calculated as follows:

\[2 	imes 12 + 2 	imes 5 = 28\] cm

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23rd June

<table>
<thead>
<tr>
<th>10% of 70</th>
<th>260.3 − 118.49</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Cube Net" /></td>
<td><img src="image2" alt="Cube Net" /></td>
</tr>
</tbody>
</table>

Here is a net of a cube.

Draw one more cross so that the cube will have crosses on opposite faces.

Here is Jessica's timetable on a Wednesday:

<table>
<thead>
<tr>
<th>maths</th>
<th>break</th>
<th>science</th>
<th>English</th>
<th>lunch</th>
<th>PE</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>9:50</td>
<td>10:00</td>
<td>11:05</td>
<td>12:10</td>
<td>1:05</td>
</tr>
<tr>
<td>am</td>
<td>am</td>
<td>pm</td>
<td>pm</td>
<td>pm</td>
<td>pm</td>
</tr>
</tbody>
</table>

How long does the science lesson last?
Jessica leaves school early to go to the doctor. She leaves 20 minutes before the end of her English lesson.

What time did Jessica leave?
24th June

<table>
<thead>
<tr>
<th>30% of 90</th>
<th>$\frac{7}{10} - \frac{1}{2}$</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Write three factors of 30 that are **not** factors of 15
- 
- 
- 

A box of staples contains 1,000 staples.
A secretary wants to order three million staples.
How many boxes of staples should they order?

Find the mean of these numbers
- 17
- 18
- 15
- 22
- 33
25th June

-25 + 33

1.4 - 0.522

A toad croaks every 10 seconds.
A frog croaks every 18 seconds.
They both croak at the same time.

After how many seconds will they next both croak at the same time?

Here is a triangle on a grid.
The triangle is translated so that point A moves to point B.

Draw the triangle in its new position.

Find the area of each triangle.
26th June

**Simplify** \( \frac{8}{30} \)  

**3948 \div 6**

Find the total number of people living in these four cities.

<table>
<thead>
<tr>
<th>City</th>
<th>Population</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brighton</td>
<td>273,369</td>
</tr>
<tr>
<td>Preston</td>
<td>190,687</td>
</tr>
<tr>
<td>Birmingham</td>
<td>1,224,136</td>
</tr>
<tr>
<td>Telford</td>
<td>166,641</td>
</tr>
</tbody>
</table>

In a bag there are red, green, pink and white beads.

Altogether there are 80 beads.

There are 23 red beads.

There are an equal number of green, pink and white beads.

What fraction of the beads are white?

Gareth chooses a **square number**

He rounds it to the nearest hundred.

His answer is 200.

Write a possible square number that Gareth could have chosen.

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27th June

$7^2$           $5,000 \div 20$

What size is the angle being measured?

Find the perimeter of this regular decagon

Complete this table

<table>
<thead>
<tr>
<th>Fraction</th>
<th>Decimal</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>$\frac{3}{4}$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>$\frac{1}{5}$</td>
<td></td>
<td>30%</td>
</tr>
</tbody>
</table>
28th June

0.2 = \[ \frac{\phantom{010}}{10} \]

285 × 11

Arrange the cities in order of temperature, starting with the coldest.

The temperature in Berlin is 5°C colder than Newcastle.

What is the temperature in Berlin?

Timothy orders the following items at a restaurant.

4 pizzas at £4.49 each.
2 garlic breads at £3.10 each.
2 orange juices at £1.19 each.
2 sparkling water at 99p each.

Complete the bill
29th June

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

From the box choose the **smallest** prime number

From the box choose the **largest** prime number

From the box write down **three** numbers that are not prime

Find the size of angle \( x \)

\[ 92 = 3 \]

\[ \times \]

\[ 4 \quad 6 \]

\[ 3 \quad 7 \]

\[ 7 \quad 19 \quad 2 \]

\[ 17 \quad 81 \]

\[ 9 \quad 1 \quad 27 \quad 99 \]

\[ 101 \quad 100 \quad 55 \]

\[ 76^\circ \quad 135^\circ \quad x \quad 81^\circ \]
30th June

$5^3$

\[
\frac{13}{30} + \frac{1}{2}
\]

Find the next two numbers in this sequence.

99,810 99,870 99,930

A parallelogram is translated from position A to position B.

Complete the sentence

The parallelogram has moved squares to the left and squares up