**1st July**

1. \(19^2 = 1,000 - \square\)

2. \(750 - 822\)

---

On the grid is one side of a quadrilateral with 3 acute angles.

Complete the quadrilateral

---

Georgia and Emma share 40 sweets in the ratio 3:5.

How many sweets does Emma get?

---

In Year 7, 90% of children like apples.

80% of the children who like apples also like oranges.

In Year 7, what percentage of children like **both** apples and oranges?

---

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2nd July

<table>
<thead>
<tr>
<th>198,981 + 891,891</th>
<th>86 \times 759</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Net of a cuboid](24cm, 16cm, 12cm)</td>
<td>![Volume of a cuboid](24cm, 16cm, 12cm)</td>
</tr>
</tbody>
</table>

\[ w = 7 \quad \text{and} \quad y = 18 \]

Work out \[ 9w - 2y \]

For every 5 50p coins, Laura has 4 20p coins.
Laura has £80.00 in 20p coins.
How much money does Laura have altogether?

Shown is the net of a cuboid.
Work out the volume of the cuboid.
3rd July

\[
\frac{\square}{\square} = 0.\hat{6}
\]

1 + 3^3

| This diagram shows a straight line and two overlapping squares. | Find the size of angle a |
| Find the size of angle b |

Seamus Heaney was born in the year 1939.
Write 1939 in Roman numerals

\[\text{Seamus Heaney was born in the year 1939.} \]
\[\text{Write 1939 in Roman numerals} \]

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4th July

1,932 ÷ 12

$$\frac{5}{7} + \frac{3}{4}$$

Draw the diameter

In a season, Torquay United

Win 45% of their matches

Draw $$\frac{1}{3}$$ of their matches

What fraction of their matches did Torquay United lose?

Work out the perimeter of this rectangle

$$\frac{9}{10} \ cm$$

$$\frac{1}{4} \ cm$$
5th July

<table>
<thead>
<tr>
<th>70% of 1,400</th>
<th>17 × 8.1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shape A</strong></td>
<td><strong>Shape B</strong></td>
</tr>
</tbody>
</table>

Shape A to translated to Shape B. Describe the translation.

What do the angles add up to in Shape A?

Thomas is 3 years old than Fiona
Cara is twice as old as Fiona.
The sum of their ages is 51.

How old is Fiona?
6th July

<table>
<thead>
<tr>
<th>15% × 380</th>
<th>In this diagram M is an equal distance from A and B. What are the coordinates of M?</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Graph" /></td>
<td><img src="image" alt="Graph" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mr and Mrs Gould have 6 children. The mean age of the children is 12 years. Ben is 7 years old. Chloe is 5 years old. Max is 10 years old. Rose and Lily are both 12 years old.</th>
<th>How old is the sixth child, Keith?</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Draw the net of a squared based pyramid</th>
<th>2 6 2 7 5 6</th>
</tr>
</thead>
</table>
7th July

\[ \frac{21}{4} \times 4 \]

\[ \begin{array}{c}
4 & 0 & 6 & 2 \\
\times & & & 3 \\
\hline
& & & 37
\end{array} \]

The pie chart shows the flavours of 270 ice creams sold.

How many vanilla flavoured ice creams were sold?

Last week Dara read \( \frac{3}{5} \) of his book.

This week he read the other 120 pages to finish his book.

How many pages are there in Dara's book?

Find the value of \( y \) in this equation

\[ 8 + 2y = 80 - 6y \]
8th July

\[ \frac{\Box}{\Box} = 0.\dot{3} \]

5% of 9,000

This graph can be used to convert between Pounds and Dirhams

Convert £50 into Dirhams

Convert 175 Dirhams into Pounds

Shown is an equilateral triangle and a regular hexagon.

Find \( y \).
Here is the ingredient list to make hot cross buns.  

**makes 12**  
480g flour  
60g caster sugar  
200ml milk  
1 egg  
50g butter  
100g currant  

Grace uses 500ml of milk  

<table>
<thead>
<tr>
<th>5,342 \times 16</th>
<th>100 \times 7 - 5 \times 45</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

How many hot cross buns is Grace making?  

How much flour should Grace use?  

Conor won some money in a raffle.  

He gave \( \frac{2}{3} \) of the money to his mum.  

Conor then gave 60% of the money remaining to his dad.  

Conor has £48 left  

How much money did Conor win in the raffle?
<table>
<thead>
<tr>
<th>10th July</th>
</tr>
</thead>
<tbody>
<tr>
<td>616 ÷ 22</td>
</tr>
</tbody>
</table>
| \[
\frac{3}{4} \times 6
\]|
| There are 32 beads in a bag. Each bead is either blue or yellow. 10 beads are blue. |
| Write down the ratio of blue beads to yellow beads |
| Ethan uses nine cubes to make a cuboid. |
| Draw what the new shape could be |
| He then removes two cubes, leaving the other cubes where they are. |
11th July

\[ \frac{17}{20} = \boxed{\%} \]

\[ 608 \times 214 \]

\[ \% \]

The area of this triangle is \(30\text{cm}^2\).

Find the length of the base of the triangle, \(y\).

In this pyramid, the number in each box is the sum of the two numbers below it.

\[ \begin{array}{c}
1 \frac{2}{3} \\
1 \frac{1}{5} \\
\hline
\frac{3}{10} \\
\frac{9}{10}
\end{array} \]

Find the two missing numbers
12th July

\[ 99 \times 50 = \underline{\text{ } } \times 6 \quad 8.216 \div 8 \]

Find the size of angle \(x\)

The Venn diagram shows information about the pets owned in a class.

How many children own a cat?

What percentage of children own a dog?
13th July

35% = \[\square\]

90 − 240

Work out the value of \(y\)

\[4y − 7 = 2y + 15\]

The line graph below shows the cost of a coffee in a shop over 30 years.

In which year was the price £2.50

Estimate the price of a coffee in 2010.
14th July

\[
\frac{1}{2} \div 4
\]

\[
497 \times 503
\]

<table>
<thead>
<tr>
<th>There are red, white and yellow counters in a bag.</th>
<th>If there are 40 white counters in the bag, how many yellow counters are there?</th>
</tr>
</thead>
<tbody>
<tr>
<td>For every 3 red counters, there are 2 white counters. There are 25% more yellow counters than red counters.</td>
<td></td>
</tr>
</tbody>
</table>

Find the highest common factor (HCF) of 24 and 40.

Find the length of this cuboid

Volume: \(432\text{cm}^3\)

\[x \times 4.5\text{cm} \times 4\text{cm} = 432\text{cm}^3\]
<table>
<thead>
<tr>
<th>Question</th>
<th>Expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0805 \times 100,000</td>
<td></td>
</tr>
<tr>
<td>\frac{1}{7} + \frac{1}{2}</td>
<td></td>
</tr>
</tbody>
</table>

**Hannah is baking three cakes**

One cake needs \( \frac{7}{8} \) cups of milk.

Hannah has 1 cup of milk.

**How much more milk does Hannah need?**

The pie chart shows information about the animals some children liked best.

Find the size of the angle \( x \).

What fraction of children liked Elephants best?
16th July

\[
\frac{5}{6} \text{ of } 19,068
\]

\[
65\% \text{ of } 2,000
\]

Draw a 205° angle

Georgie is 13 years old today.
How many days old is she?

\[m\] is a whole number.

\[7m\] is greater than 50
\[10m\] is less than 115

Write all the numbers that \(m\) could be
17th July

\[100 - 5^2\]

\[0.375 = \frac{\text{?}}{\text{?}}\]

Find the shaded area

Shown is a square. C is the centre of the square.

Find the coordinates of A

Find the coordinates of B
18th July

22 \times 33 \times 44

0.5\% = \frac{\Box}{\Box}

Work out the volume of this cube.

Shown is a regular octagon

Find the size of angle x

A farmer says she has 4,500 chickens to the nearest 100.

What is the greatest possible number of chickens that he has?
0.425 = \[ \frac{\boxed{\phantom{00}}}{} \] 

Write in the missing number so that the mean of the five cards is 11.

13 5 18 2 \[ \boxed{\phantom{00}} \]

Trapezium S and trapezium T are similar

Find the size of \( x \)

Find the size of \( y \)
The perimeter of the regular hexagon is 25cm greater than the perimeter of the regular pentagon.

Find a

Find three different prime numbers that have a sum of 40

Megan feeds her cat $\frac{2}{5}$ of a can of cat food each day.

How many cans of cat food are eaten each week?
21st July

\[-1.5 + 2.1\]

\[
\begin{array}{c}
1190 \\
\times \\
26 \\
\end{array}
\]

Work out the value of \(w\)

\[4w - 3 = w + 24\]

This shape is made from centimetre cubes.

How many more centimetre cubes are needed to make it into a solid cuboid 5cm wide, 6cm long and 4cm tall?
22nd July

\[
\frac{3 \times 5 \times 4}{0.1} = 20
\]

Work out the volume of the cuboid

Convert 2.5 kilometres into millimetres

B is 5 times heavier than A
B is 18kg heavier than A

How heavy is B?
23rd July

3% of 52,000
1158 × 35

Four identical circles fit inside a rectangle. Find the distance between the centres of the first and fourth circle.

Write 1950 in Roman numerals

This sequence increases by an equal amount each time. Find the three missing numbers

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24th July

<table>
<thead>
<tr>
<th>$5^3 + 5^2$</th>
<th>$3,840 \div 80$</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A car travels at 50 miles per hour for 4 hours.
How far does the car travel?

Write down the value of the 1 in the answer to

$1,470 \times 3,000$

Find the size of the missing angle $x$
25th July

| 34 − 4 × 7 | \( \frac{3}{5} \times \frac{2}{3} \) |

25% of the children in a school have a dog.

10% of the children who have a dog also have a cat.

There are 12 children who have both a dog and a cat.

How many children go to the school?

This graph can be used to change between miles and kilometres

Change 8 kilometres into miles

Change 40 kilometres into miles

Change 8 kilometres into miles

Change 40 kilometres into miles

\[ 34 − 4 \times 7 \]

\[ \frac{3}{5} \times \frac{2}{3} \]
26th July

85% = \[
\begin{array}{c}
\text{□□□□□}
\end{array}
\]  

1.3 ÷ 20

Which pattern uses 57 dots?

Pattern 1  Pattern 2  Pattern 3

A website sells keyrings for £1.25 each.

When buying keyrings, you need to pay postage and packaging as well. Here are the prices for postage and packaging:

| Postage and Packaging |  |
|-----------------------|--|---|
| 1 to 10 keyrings     | £2.50 |
| 11 to 20 keyrings    | £5.50 |
| 21 to 30 keyrings    | £7.50 |
| 31 to 100 keyrings   | Free |

Owen has £30 and buys as many keyrings as possible.
27th July

<table>
<thead>
<tr>
<th>Expression</th>
<th>Calculation</th>
</tr>
</thead>
<tbody>
<tr>
<td>$-9 + 205$</td>
<td></td>
</tr>
<tr>
<td>$712 \times 49$</td>
<td></td>
</tr>
</tbody>
</table>

Hannah and Rory play tennis for their school.

The pie charts show information about their results.

James says that Hannah has won more matches than Rory.

Shown is a regular hexagon

Find the size of angle $x$
28th July

12.5% = \[
\]

98 \times 132 = 4 \times \[
\]

Shown are two identical rectangles
Find the length of one rectangle

\[
\]

\[
\]

Find the size of angle \(x\)

Shown below are five cards which are arranged in order, smallest first
The difference between the smallest and largest is 6.
The middle card is 25% of 28.
The mean of the cards is 8.

Work out the 4 missing numbers
29th July

40% of 250

\[ \frac{2}{5} \div 2 \]

Shown is a net for a 3D shape

Which 3D shape?

The time taken for 4 children to complete a puzzle are:

- 14 minutes
- 3000 seconds
- half an hour
- 25 minutes

Work out the mean time taken

Write these numbers in order of size
Starting with the smallest

\[ 0.13 \quad \frac{3}{20} \quad 12\% \quad \frac{1}{10} \quad 0.09 \]
30th July

0.561 \times 7

\frac{1}{5} - \frac{4}{9}

Draw the diameter on this circle

A football is dropped and bounces up to a height that is 80% of the height from which it was dropped.

It then bounces again to a height that is 80% of the previous height and so on.

The football is dropped from a height of 20m.

What height does the ball rise to after the second bounce?

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31st July

<table>
<thead>
<tr>
<th>812 ÷ 14</th>
<th>6,300 ÷ 1,000,000</th>
</tr>
</thead>
</table>

Daisy is buying rulers
She has £20
Each ruler costs 64p
Daisy buys as many rulers as she can.

How many rulers does Daisy buy?

Here are two similar trapeziums
Write the ratio of side a to side b

\[ a : b = \square : \square \]

Here is a pattern of number pairs
Complete the rule for the number pattern

\[ b = \square \times a + \square \]

<table>
<thead>
<tr>
<th>a</th>
<th>b</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>16</td>
</tr>
<tr>
<td>3</td>
<td>22</td>
</tr>
<tr>
<td>4</td>
<td>28</td>
</tr>
</tbody>
</table>