## Place Value Mystery Number Answers

Use these clues to help you calculate the missing number.

| The mystery number $(x)$ has been ordered with <br> these numbers. If you count back from the mystery number in <br> millions, you will arrive at an odd number less <br> than 10000000 but greater than 9999900.   <br> 9723654  $x$ 10000000 |
| :--- |
| Smallest |

The mystery number is $\mathbf{9} 999909$.

Think of your own mystery number. Write clues which lead to calculating your mystery number.
$\square$

## Calculation Course Answers

Viren and Mae leave their homes and walk to their new secondary school. They start by thinking of a number and at each step, they perform a calculation on it. What number will they have when they reach their new school?


## Fraction Flags Answers

Colour each flag, using the given fractions. State the remainder as a fraction in its simplest form.

| $\frac{3}{8}$$\frac{1}{4}=$ green |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| $\frac{7}{8}-\frac{12}{16}=$ yellow | G | G | G | G |
| The rest will be blue. |  |  |  |  |
| green $=\frac{5}{8}$ |  |  |  |  |
| yellow $=\frac{1}{8}$ |  |  |  |  |
| blue $=\frac{2}{8}=\frac{1}{4}$ | Y | B | B |  |



| $\frac{1}{2} \times \frac{3}{5}=$ red <br> $\frac{8}{10} \times \frac{1}{2}=$ yellow <br> The rest will be blue. | $\mathbf{R}$ | $\mathbf{R}$ | $\mathbf{R}$ | $\mathbf{Y}$ | $\mathbf{Y}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | $\mathbf{Y}$ | $\mathbf{Y}$ | $\mathbf{B}$ | $\mathbf{B}$ | $\mathbf{B}$ |
| red $=\frac{3}{10}$ |  |  |  |  |  |
| yellow $=\frac{8}{20}$ or $\frac{4}{10}$ or $\frac{2}{5}$ |  |  |  |  |  |
| blue $=\frac{3}{10}$ |  |  |  |  |  |

$\frac{2}{3} \div 2=$ green
$\frac{3}{4} \div 3=$ red
The rest will be yellow.

green $=\frac{2}{6}$ or $\frac{1}{3}$ or $\frac{4}{12}$
red $=\frac{3}{12}$ or $\frac{1}{4}$
yellow $=\frac{5}{12}$

$$
\begin{aligned}
& \frac{4}{5} \div 6=\text { blue } \\
& \frac{7}{10} \times \frac{2}{3}=\text { yellow }
\end{aligned}
$$

The rest will be green.
 blue $=\frac{4}{30}$ or $\frac{2}{15}$
yellow $=\frac{14}{30}$ or $\frac{7}{15}$
green $=\frac{6}{15}=\frac{2}{5}$

| 1st fraction in order $=$ yellow |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Y | Y | Y | G | G | G |
| 3rd fraction in order = green | G | G | R | R | R | R |
| The rest will be red. yellow $=\frac{1}{4}$ or $\frac{3}{12}$ | Order the fractions from smallest to biggest: |  |  |  |  |  |
| $\text { green }=\frac{5}{12}$ | $\frac{5}{12}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}, \frac{7}{6}$ |  |  |  |  |  |
| $\mathrm{red}=\frac{4}{12} \text { or } \frac{1}{3}$ | $11 \frac{5}{1} \frac{7}{6}$ |  |  |  |  |  |

## Geometry and Measure Game Answers

| Question Number | Question | Answer |
| :---: | :---: | :---: |
| 1 | The area of a square with length 5 cm . | $25 \mathrm{~cm}^{2}$ |
| 2 | The approximate number of kilometres in 5 miles. | 8km |
| 3 | The number of millimetres in 5 centimetres. | 50 |
| 4 | The name of an angle less than $90^{\circ}$. | Acute |
| 5 | The number of millilitres in 3 litres. | 3000ml |
| 6 | The volume of a cube with length 5 m . | $125 \mathrm{~m}^{3}$ |
| 7 | The perimeter of a square with an area of $4 \mathrm{~cm}^{2}$. | 8 cm |
| 8 | Two angles are on a straight line. One is $50^{\circ}$. What is the other one? | $130^{\circ}$ |
| 9 | The area of a triangle with a base of 6 cm and a height of 8 cm . | $24 \mathrm{~cm}{ }^{2}$ |
| 10 | The name of a ten-sided polygon. | Decagon |
| 11 | The approximate number of kilometres in 15 miles. | 24km |
| 12 | The value of an angle in an equilateral triangle. | $60^{\circ}$ |
| 13 | A circle has a radius 6 cm long. Calculate the length of its diameter. | 12 cm |
| 14 | The name of an angle greater than $90^{\circ}$ but less than $180^{\circ}$. | Obtuse |
| 15 | The number of centimetres in 2 metres. | 200cm |
| 16 | The number of kilograms in 2750 grams | 2.75 kg |
| 17 | The number of millilitres in 5.4 litres. | 5400 ml |
| 18 | The number of centimetres in 65 millimetres. | 6.5 cm |
| 19 | The name of a six-sided polygon. | Hexagon |
| 20 | The approximate number of miles in 16 kilometres. | 10 miles |
| 21 | The name of the line passing through the centre a circle from side to side. | Diameter |
| 22 | The name of a five-sided polygon. | Pentagon |
| 23 | The number of seconds in 1 hour | 3600 |
| 24 | The area of a parallelogram with a base of 10 cm and a vertical height of 5 cm . | $50 \mathrm{~cm}^{2}$ |
| 25 | The name of the edge of a circle. | Circumference |
| 26 | The number of grams in 4 kilograms | 4000g |
| 27 | The number of seconds in 5 minutes. | 300 |
| 28 | The name of an angle equal to $90^{\circ}$. | Right angle |
| 29 | The number of hours in 300 minutes. | 5 |
| 30 | The number of litres in 2500 millilitres. | 2.51 |
| 31 | The number of metres in 3.25 kilometres. | 3250m |
| 32 | Two angles are on a straight line. One is $135^{\circ}$. What is the other one? | $45^{\circ}$ |
| 33 | The number of sides in a hexagon. | Six |
| 34 | The name of an angle greater than $180^{\circ}$ but less than $360^{\circ}$. | Reflex |
| 35 | The name for any four-sided polygon. | Quadrilateral |
| 36 | The name of the line from the centre of a circle to its edge. | Radius |

