

These problems can be found on the White Rose Maths website. I have attached the first 5 for this week but please be mindful, they are for the whole of Key Stage 2 so you may find them really tricky ☺ Good luck!

Problems of the Day 2020

Day 1

1 Fill in the missing numbers.

100 less than 20,000 is

more than 20,000 is 20,600

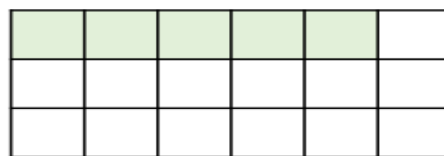
2



25% of my number is 24

What number is Teddy thinking of?

3 Lucy shades in part of a rectangle.



She shades some more squares.

$\frac{7}{9}$ of the rectangle is now shaded.

How many more squares did Lucy shade?

Problems of the Day 2020

Day 2

1 Ron and Eva each make a 3-digit number from these digit cards.



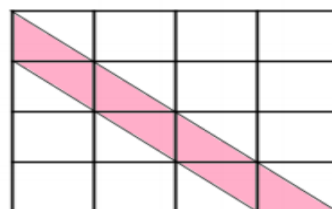
- Ron makes the largest even number possible.
- Eva makes the smallest odd number possible.

What is the difference between their numbers?

2 Circle all the fractions that are greater than 1 but less than 2

$\frac{12}{5}$ $\frac{12}{6}$ $\frac{12}{7}$ $\frac{12}{8}$

3 What fraction of this shape is shaded?



Problems of the Day 2020

Day 3

- 1 Which of these numbers round to 2,000 to the nearest 100?

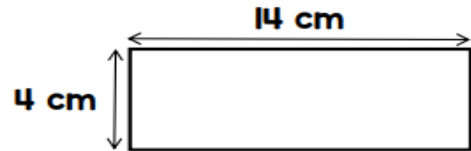
1,950 2,312 2,099 2,045

- 2 What are the missing numbers?

$$6.4 = 1 + \square$$

$$3\frac{2}{5} = 1 + \frac{\square}{5}$$

- 3 Annie has a 1 metre piece of wire. She cuts the wire into two pieces. She uses the smaller piece to make this rectangle.



She uses the other piece of wire to make a square.

What is the length of one side of the square?

Problems of the Day 2020

Day 4

- 1 What are the missing digits?

$$\begin{array}{|c|} \hline 3 \\ \hline \square \\ \hline \end{array} + \begin{array}{|c|} \hline \square \\ \hline 5 \\ \hline \end{array} = \begin{array}{|c|} \hline 1 \\ \hline \square \\ \hline \square \\ \hline \square \\ \hline \end{array}$$

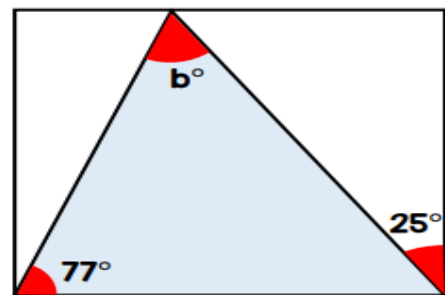
- 2 Annie and Ron each think of a number.

I'm thinking of the number 6



The product of their numbers is 762
Work out Ron's number.

- 3 Find the size of angle b.



Problems of the Day 2020

Day 5

- 1 Marbles are put into bags of 10



- 67 bags of marbles are packed.
- 3 more marbles are added to each bag.

How many marbles are there in total now?

- 2 Work out the missing digits.

$$\begin{array}{|c|} \hline 5 \\ \hline \end{array} \times \begin{array}{|c|} \hline \square \\ \hline \end{array} \times \begin{array}{|c|} \hline \square \\ \hline \end{array} = 105$$

- 3 A toy train costs three times as much as a rocket.



The total cost of the train and rocket is £52

How much does the train cost?