Problems of the Day 2020

1 Fill in the missing numbers.

100 less than 20,000 is [____]
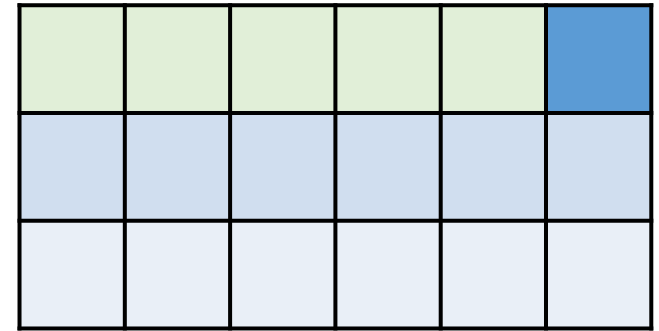
[____] more than 20,000 is 20,600

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?

White Rose Maths

Problems of the Day 2020

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 ☐

$3\frac{2}{5}$ 1 $\frac{☐}{5}$

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.

14 cm

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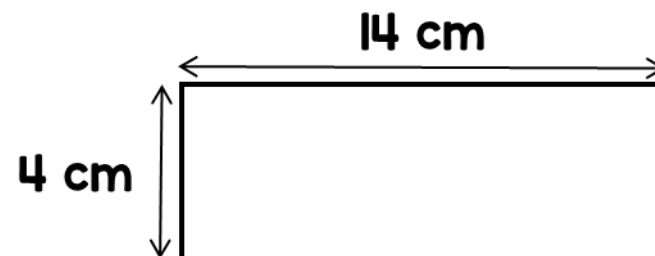
She uses the other piece of wire to make a square.

What is the length of one side of the square?

White Rose Maths

1 What are the missing digits?

$$\boxed{3\;\boxed{}} + \boxed{\boxed{}\;5} = \boxed{1\;1\;1}$$

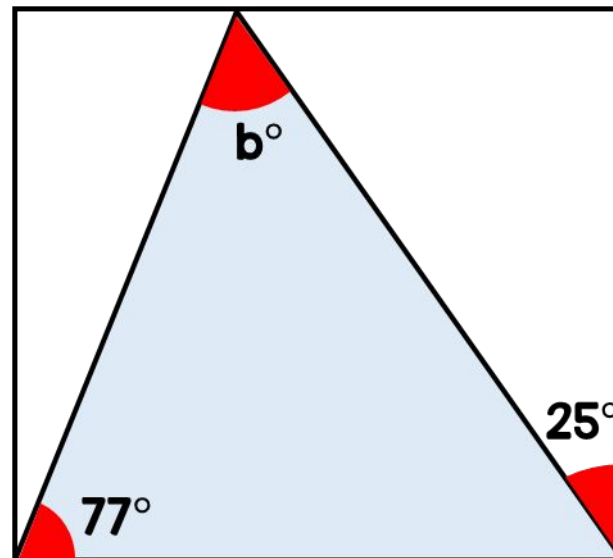**2** Annie and Ron each think of a number.

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.

b°

25°

77°

1 Ron and Eva each make a 3-digit number from these digit cards.
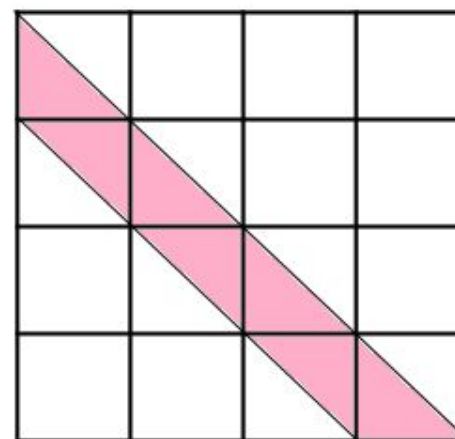
3 **6** **8**

- 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

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

3 What fraction of this shape is shaded?

White Rose Maths

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.

$$5 \times \boxed{} \times \boxed{} = 105$$

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?

White Rose Maths