

Problems of the Day 2020

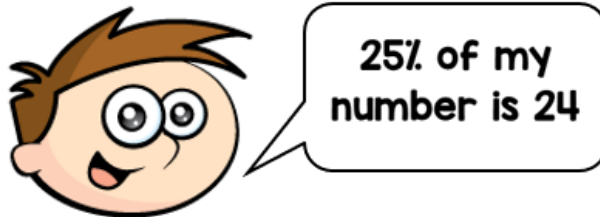
Day 1

1 Fill in the missing numbers.

100 less than 20,000 is 19,900

600 more than 20,000 is 20,600

2

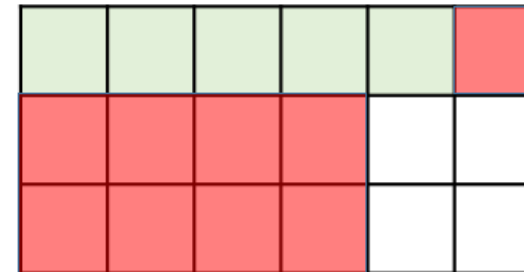


What number is Teddy thinking of?

$$24 \times 4 = 96$$

Teddy is thinking of 96

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?

Lucy shades 9 more squares.

Lucy has shaded 7 out of every 9 squares. As there are 18 squares altogether (double 9), then she must have shaded 14 of the squares (double 7).

5 squares were shaded first so she will have needed to shade 9 more.

$25\% = \frac{1}{4}$ so we know that Teddy's starting number was divided by 4.

To find the number that Teddy began with, we must multiply it by 4 (inverse). This will get us back to 100%.