## Problem of the day answers

## Monday

1. Fill in the missing numbers.

100 less than 20,000 is 19,900.

600 more than 20,000 is 20,600.

2.  $25\% = \frac{1}{4}$  which means  $24 = \frac{1}{4}$ 

24	24	24	24
2 /	2 1		2 /

The total value =  $24 \times 4 = 96$ 

The number Teddy is thinking of is 96.

3. There are 18 parts that make up the whole. There are currently  $\frac{5}{18}$  parts shaded.

 $\frac{7}{9}$  is equivalent to  $\frac{14}{18}$ . That means  $\frac{9}{18}$  more parts needed to be shaded.

## <u>Tuesday</u>

Ron's largest possible even number is 836.
 Eva's smallest possible odd number is 683.
 The difference between their numbers, 836 s 683 = 153

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

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

3. If you split each part in half, you have a total of 32 parts. There are 7 half squares shaded so the fraction is  $\frac{7}{32}$ .

## Wednesday

 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?

$$6.4 = 1 + \boxed{5.4}$$

$$3\frac{2}{5} = 1 + \frac{12}{5}$$

3. Annie has a 1 metre piece of wire. (1m = 100cm)

Find the perimeter of the rectangle. 14cm + 4cm + 14cm + 4cm = 36cm

Subtract this amount from the initial 1m of wire. 100cm - 36cm = 64cm

To find the length of each side of a square, divide 64cm by the number of sides. 64 divided by 4 = 16cm

The length of one side of the square is 16cm.

Thursday

1. What are the missing digits?

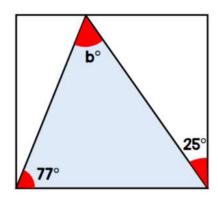
$$36 + 75 = 111$$

2. Remember 'product' means total when two numbers have been multiplied.

To find the answer, you need to do the inverse using the total and Annie's number.

762 divided by 
$$6 = 127$$
 Ron's number is  $127$ .

3. Find the size of angle b.



You need to use the square that outlines the triangle and use this to know that each corner of the square is a right angle which is 90 degrees.

Find the missing angle in the bottom right corner first. 90 - 25 = 65 degrees.

Knowing that the internal angles of a triangle add up to 180 degrees, add 77 and 65 degrees together and then subtract this answer from 180.

$$180 - 42 = 38$$
 degrees