Problems of the Day 2020

Day 1

1 Fill in the missing numbers.

100 less than 20,000 is ☐

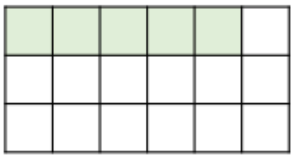
☐ more than 20,600 is 20,600

2



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?

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Problems of the Day 2020

Day 2

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

3 6 8

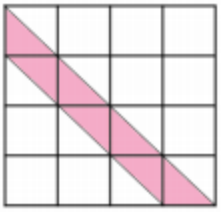
- Ron makes the largest even number possible.
- Eva makes the smallest odd number possible.

What is the difference between their numbers?

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

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

3 What fraction of this shape is shaded?



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Day 3

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

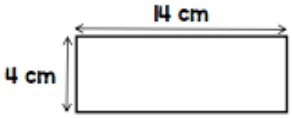
1,950 2,312 2,099 2,045

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?

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Day 4

1 What are the missing digits?

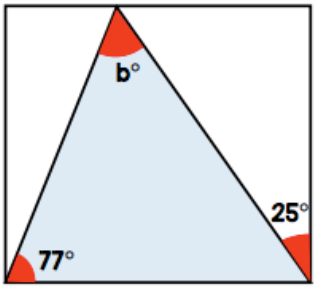
3		+		5	=	1	1	1

2 Annie and Ron each think of a number.



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

3 Find the size of angle b.



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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.

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

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?

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