Can you complete the Problems of the day?
Try to complete them as quickly and as accurately as you can!

Problems of the Day 2020
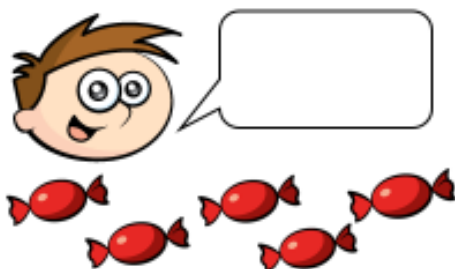
Day 1

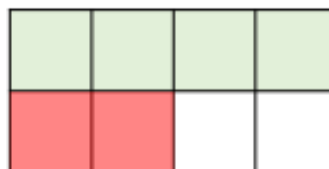**1** Fill in the missing numbers.

10 less than 46 is [ ]

[ ] more than 30 is 35

2

How many sweets does Teddy have?

3 Lucy shades in part of a rectangle.

She shades some more squares.

$\frac{3}{4}$ of the rectangle is now shaded.

How many more squares did Lucy shade?
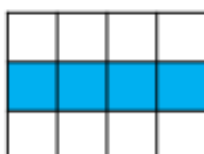
Problems of the Day 2020

Day 2

1 Ron has these digit cards.

1 **4** **6**

He uses two of the cards to make a 2-digit number.

How many even 2-digit numbers can he make?

2 One third of the shape is shaded. True or false?

3 Tick all the calculations that have an answer greater than 40

$43 + 39$ $35 - 6$

$23 + 28$ 10×7

$24 \div 2$

Did you tick any without working them out?

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Problems of the Day 2020

Day 3

1 Which of these numbers is closest to 10?

3 **13**

Which of these numbers is closest to 50?

75 **28**

2 What are the missing numbers?
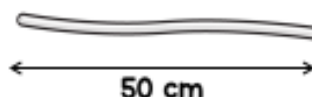
$64 = 10 +$ ☐

$39 = 100 -$ ☐

3 Annie has an 80 cm piece of wire.

She cuts the wire into two pieces. The long piece is 50 cm long.

← 50 cm →

She cuts the smaller piece into 2 more pieces of equal size.

How long is one of these pieces?

White Rose Maths

Problems of the Day 2020

Day 4

1 What are the missing digits?

3 ☐ **+** ☐ **5** **=** **7** **6**

2 Annie and Ron each think of a number.

I'm thinking of the number 6

The sum of their numbers is 25
What is Ron's number?

3 The bee makes a half turn.

Which way is the bee now facing?

White Rose Maths

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Problems of the Day 2020

Day 5

1. There are 5 marbles in a bag.

Ron has 10 bags of marbles.

He puts 1 more marble in each bag.

How many marbles are there in total now?

2. Work out the missing digit.

$$5 + \boxed{} + 4 = 16$$

3. A toy train costs £4 more than a rocket.

The train costs £15

How much do the train and the rocket cost in total?

Problems of the Day 2020

Day 6

1. Here is how much it costs to go to the zoo.

Children £5

Adults £10

Mr Jones and his 3 children go to the zoo.

How much does it cost them altogether?

2. If

$$\triangle + \triangle = 12$$

$$\heartsuit + \triangle = 19$$

What is the value of $\heartsuit$?

3. What are the missing numbers?

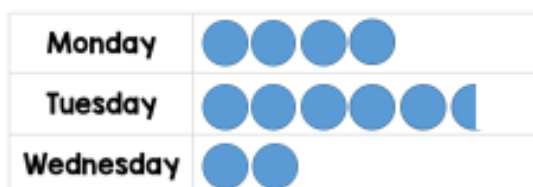$$\boxed{} \times 10 = 40$$

$$\boxed{} \div 10 = 7$$

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Problems of the Day 2020

1 The pictogram shows the number of children who walk to school each day.

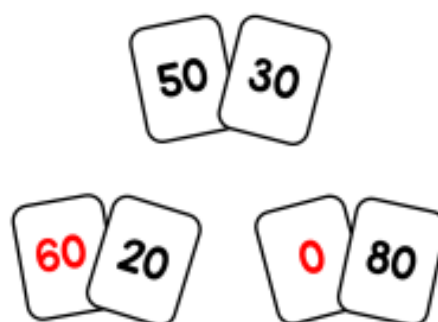| Monday | ● ● ● ● |
| Tuesday | ● ● ● ● ● ◖ |
| Wednesday | ● ● |

● = 2 children

There are 20 children in the class.

How many children did not walk to school on Tuesday?

2 These pairs of numbers all have the same total.

50 30

60 20   0 80

Work out the missing numbers.

White Rose Maths

Problems of the Day 2020

1 Mary makes toys

- On Monday she makes 7 toys.
- On Tuesday she makes 8 toys.

By Wednesday she has to make 20 toys in total.

How many toys does Mary need to make on Wednesday?

TOY FACTORY

2 Tom has £20

Melon
£2 each

He buys 7 melons.

$7 \times 2 = 14$
$20 - 14 = 6$

How much money does he have left?   Tom has £6 left.

3 Circle 3 numbers that sum to 12

6   5   4   3   2   1

White Rose Maths

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Problems of the Day 2020

Day 9

1 The cost of a pineapple is twice the cost of a melon.

£4 each

How much do the pineapple and melon cost altogether?

2 Tommy thinks of a two-digit number.

My number ends in a 5

Does Tommy's number have to be odd? Explain your answer.

3 Gina balances some scales.

16 kg

15 kg

What is the mass of the sphere?

White Rose Maths

Problems of the Day 2020

Day 10

1 Here are some digit cards.

1 4 5

Mary makes a 2-digit number using two of the cards.

How many different numbers can she make?

2 Complete the number sentences.

$60 + \boxed{} = 79$

$15 + 12 = 12 + \boxed{}$

3 Tom balances some scales.

70 kg

40 kg

What is the mass of the sphere?

White Rose Maths