## Problems of the Day 2020

I Use $<$, $>$ or = to make these number sentences correct.

$$
\begin{aligned}
& 5 \times 7 \bigcirc 40 \\
& 6 \times 2 \bigcirc 7 \times 2 \\
& 10 \div 2 \bigcirc 12 \div 2
\end{aligned}
$$

2 There are 50 children in a school. 15 of the children are girls. How many more boys than girls are in the school?

3 Mr Patel writes a number on the board.

- Lee finds $\frac{1}{2}$ of the number.
- Kim finds $\frac{1}{4}$ of the number.
- Lee's answer is 5 more than Kim's.

What is the number Mr Patel started with? This bar model may help you.


## Problems of the Day 2020

12
| Given than $A+B=C$ Draw an arrow pointing to $C$


2 Amir has a box of 50 counters. 12 of the counters are red. 17 of the counters are blue. The rest of the counters are yellow. Which coloured counter are there more of?

3


How many stickers did Lisa share out?

## Problems of the Day 2020

13

I Sam has E 50
He buys this cap and jumper with his


How much money does he have left?

2 One half of a number is 6 What is double the number?


Mo gives Alex some stickers. They now have the same number of stickers.

How many stickers does Mo give Alex?

## Problems of the Day 2020

| Which of these are equal to 15 ?


2 A rope measures 30 metres.


The rope is cut into 10 equal sized pieces.
What is the total length of 5 of these pieces?

3 Danny has two boxes of sweets.


He puts the sweets into smaller bags.

There are 5 in each bag.

ts?

## Problems of the Day 2020

I In a box

- $\frac{1}{4}$ of the apples are green.
- The rest are red.
- There are 5 green apples.

How many apples are red?


2 Amir has 10 cartons of juice.


Each carton holds 2 litres of juice.
How much juice is in 7 cartons?

## Problems of the Day 2020

16

I Here are 3 number patterns.

| 0 | 5 | 10 | 15 | 20 |  | 30 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 27 | 37 |  | 57 | 67 | 77 | 87 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 32 | 30 | 28 | 26 |  | 22 | 20 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

What is the sum of the three missing numbers?

2 Work out the value of each symbol.




## Problems of the Day 2020

I Mary measures the mass of 2 cylinders.


What is the mass of 10 of these cylinders?

2 Jack and Dora each have some money.


They have the same amount left.
Dora spent $£ 20$
How much money did Jack have at the start?

## Problems of the Day 2020

18

I Tim has two packs of pop.
Each pack holds 24 cans.


Sally has five smaller packs.
Each of her packs holds 6 cans.


How many more cans of pop does Tim have?

2 Here is some money.


The money is shared between 5 girls and 2 boys.

Each girl receives $£ 3$
How much money does each boy receive?

## Problems of the Day 2020

I Mo has six 5p coins.


He also has five IOp coins.


He buys this lolly.
How much money does he have left?


2 Mrs Green bakes muffins.
She sells them in her shop.


- On Monday she bakes 30 and sells 18
- On Tuesday she bakes twice as many muffins but has the same amount left.

How many muffins did she sell on Tuesday?

## Problems of the Day 2020

I Complete these number sentences.

$$
\begin{aligned}
& 5+5+5+5=\square \times 5 \\
& 2+2+2+2+2=\square \times 5
\end{aligned}
$$

$$
10+10+10=\square \times 5
$$

$$
5-5=\square \times 5
$$

2 Lou has 5 bananas.


Dan has 8 times as many.

How many bananas do they have in total?

A bag contains 100 counters.
3 Susie takes out 26 counters.
Mark takes out 39 counters.
How many counters are left in the bag?

