Maths Plan

Week 01.03.21

Topic- ÷ 2, Doubling and halving money and Continue Problem solving

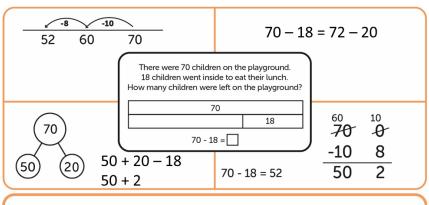
Monday

L.O- Choosing a strategy

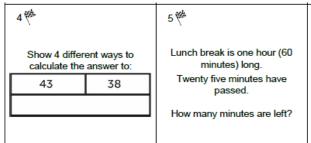
Continuing on from last week's problem solving, the children need to develop their strategies for mental and written calculations. It is important that the children are provided with time to explore the most efficient and most appropriate strategy to solve a given problem.

On zoom we give the children a problem, we will recap Part/whole bar models.

There were 70 children on the playground. 18 children went inside to eat their lunch. How many children were left on the playground?



The most efficient/appropriate strategy for the calculation is... because ...



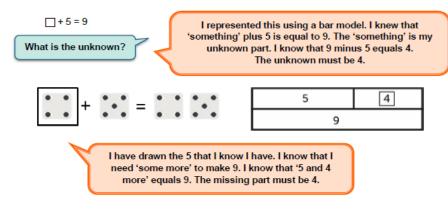
Task- Destination 4 and 5

Challenge

Activities for exploring ideas at greater depth There are 86 cakes. 19 boys and 14 girls take a cake. How many cakes are left? I will solve 19 + 14 mentally by rebalancing. 19 + 14 = 20 + 13 This equals 33. Then, I will use expanded written subtraction to solve 86 - 33.

Tuesday

L.O-Strategies to solve missing number problems

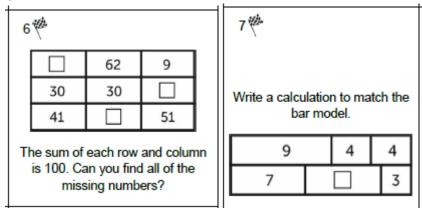


Now that the children are familiar with the part whole model for solving problems, they can deepen their understanding further by thinking about mental strategies to find a starting point.

For example, present children with a missing number calculation. Ask them to represent this using a part whole model and in a pictorial representation. This will be discussed on zoom.

- 60 = 30
- □ = 31 + 17
- 65 + □ = 93

Destination 6 and 7



Wednesday-

L.O-Further problem solving with statistics

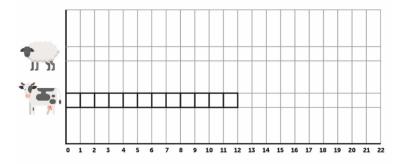
The children will now explore the concept of part whole using familiar statistical representations. Language linked to addition and subtraction from previous sequences will be rehearsed and refined.

Discuss with the children-

The difference between the number of sheep and number of cows on the farm is 9.
There are 12 cows.
How many sheep could there be?

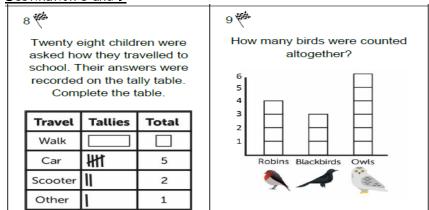
Prove it.

Represent this on a part whole model. What is the same? What is different?



21 sheep		3 sheep	9 fewer
12 cows	9 more	12 cows	

<u>Task</u>
<u>The children will be asked to draw a bar graph to show a set of data.</u>
Destination 8 and 9



Thursday

L.O- To understand ÷ 2 is the same as halving numbers.

Today we will recap how to halve a 2 digit number. We will remind the children that halving is the same as \div 2.

We will ask the children

Can 54 and 65 be halved?

Discuss and clarify if it is an odd number it cannot be halved.

We will model halving a number by first regrouping the number into tens and ones and then halving. Recap this means that if there is an odd number of tens you will need to

regroup one of the tens into ones and then halve them. This can be shown as below.

Half of 38 is 19.

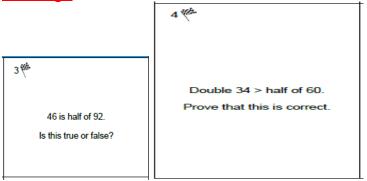
How else could this be written? $\frac{1}{100}$ $\frac{1}{100}$

Children practise ÷ 2. Ensuring good understanding that this means halving.

Task-

- 1) 22÷ 2 = 6) 100 ÷ 2 =
- 2) 16÷ 2 = 7) 44 ÷ 2 =
- 3) $30 \div 2 =$ 8) $76 \div 2 =$
- 4) 10÷ 2 = 9) 90 ÷ 2 =
- 5) 50 ÷ 2 = 10) 56 ÷ 2 =

Challenge



Extra Challenge-select even 3 digit numbers and + 2.

<u>Friday</u>

L.O- Halving amounts of money

Today we will look at coins and discuss their value and how we would ÷ 2 to give us half. Discuss



Pair up coins that are double or half the value of another coin.

We will ask the children to pair the coins.

On zoom we will play the 'Double or halve game' with a given amount.

Provide pupils with problems that involve doubling and halving amounts of money. For example:

- The globe originally cost £58. It is now in the half-price sale. What would be its price now?
- Jenny bought two cupcakes costing 45p each. How much did she spend and what coins could she use?
- An eraser costs 19p in the half price sale. What did it cost originally?

Encourage your child to apply the strategies used in the previous steps to calculate and record their answers.

Task-

Using coins- work on doubling and halving money, selecting the correct coins.

Show your working

Example - £20 \div 2 =£10

Destination 1



Sam found a magic set to buy online for £17.

How much will he need so that he can buy one for him and one for his sister?

Purple mash 2dos on doubling and halving money.