3.12.21

Arithmetic LO: To develop mental arithmetic skills.
I know my number bonds to ten and how they can help me solve addition and subtraction problems.
I can develop my mental arithmetic skills to help me with efficiency.
I understand why developing mental arithmetic is important for real life situations.

Mental Maths Strategies

Near Doubles

For adding similar numbers.

Double one of the numbers and adjust by adding or subtracting the difference.

26 + 25 =

I know double 25 is 50

26 + 25 =
1 more than double 25 = 51

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Whiteboards

Use this strategy to work out 31 + 30.

Mental Maths Strategies
Near Halves

For subtracting when the number is a near half

25 – 12 =

I know half of 24 = 12

25 – 12 = 13

(25 is more than 24, so answer is 1 more than 12 = 13)

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Whiteboards

Use this strategy to work out 31 - 15.

Mental Maths Strategies
Using Pairs to Ten

For adding where numbers add to 10, or ends with a 0.

23 + 67 =

I know 3 + 7 = 10

23 + 67 = 20 + 60 + 10 = 90

Whiteboards

Use this strategy to work out 74 + 26.

160 – 37 =

I know 10 – 7 = 3

160 – 37 = 160 – 30 – 7 = 123

Use this strategy to work out 170 – 25.

Mental Maths Strategies

Part, Part, Whole

Use known facts to add and subtract.

$$17 - 8 =$$

I know $8 + 9 = 17$

so

$$17 - 8 = 9$$

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Whiteboards

Use this strategy to work out 16 - 7.

Consider: I know that 16 - 6 = 10.

1. Add together 38 and 45. _____

2. Calculate the difference between 28 and 65. _____

3. What is the total of 12, 35 and 49? _____

4. How much less is 34 than 72? _____

5. Subtract 38 from 51. _____

1. Jamie has 45p and Tarek has 36p. How much do they have altogether?

_____

2. Liam has £2.50. He buys a present for his mum for 75p. How much does he have left?

_____

3. A teacher collects all the pencils in the classroom. He collects 45 pencils from the floor and adds them to the 37 pencils he has in the cupboard. How many pencils are there altogether?

_____

4. There are 36 tennis balls in the PE store. Last week, there were 61 tennis balls. How many are missing?

_____

5. It takes 35 minutes for a cake to bake in the oven. The cake has been in the oven for 18 minutes. How much longer before the cake is cooked?

_____

Extension

1 Mental Maths

Solve these problems in your head:

A

Add together 50p, 60p and 20p.

B

What is the total of 25, 17 and 33?

2 Mental Maths

Solve these problems in your head:

A

Lauren was given some money for her birthday. Her brother gave her £3.50, her sister gave her £2.00 and her grandma gave her £2.50. How much did she get in total?

B

Omar collects 66 bus tickets and 22 train tickets. How many tickets does he have in total?

5 Mental Maths

Solve these problems in your head:

A

James is saving money for a computer game. He has earned £11 from washing cars, £16 from delivering newspapers and £12 from walking the dog. How much money has he saved in total?

B

What is 78 subtract 42?

7 Mental Maths

Solve these problems in your head:

A

Oliver has 36 sweets. He shares them equally with a friend. How many sweets will they have each?

B

What is 43 doubled?

Plenary

Which strategy could I use
to work out 22 - 12?

Consider: I know
that 12 + 10 = 22.

Mental Maths Strategies

Part, Part, Whole

Use known facts to add and subtract.

$17 - 8 =$

I know $8 + 9 = 17$

so

$17 - 8 = 9$

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