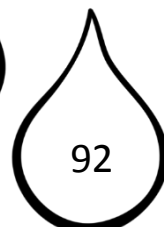
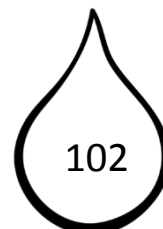
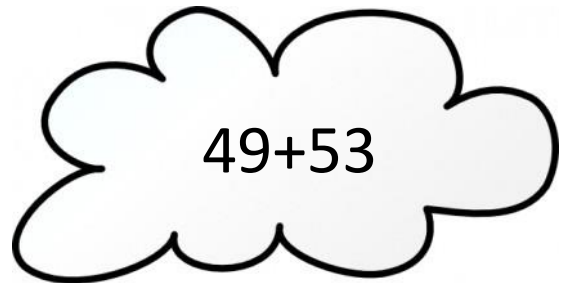
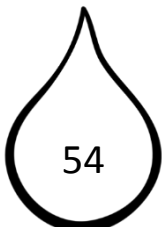
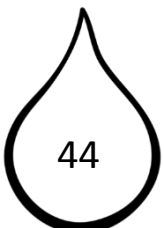
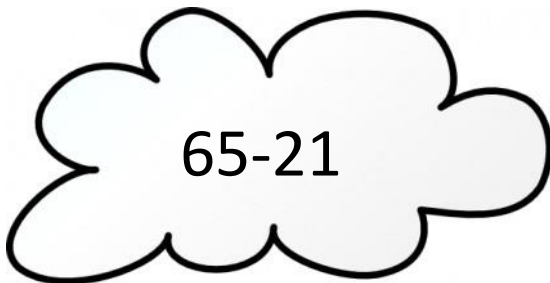
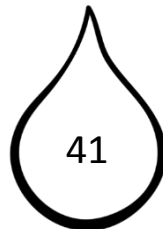
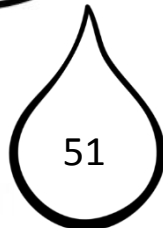
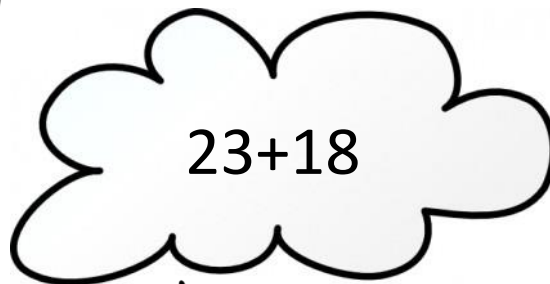
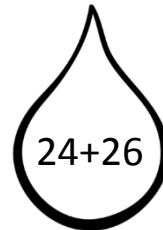
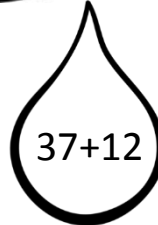
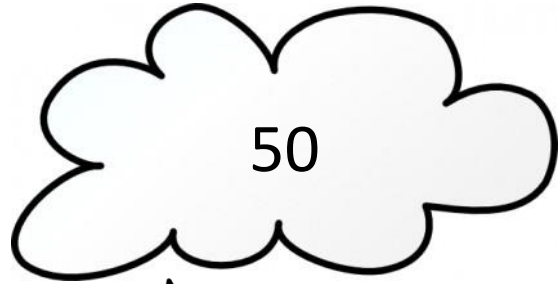
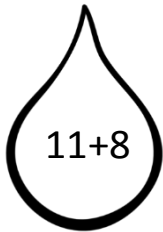
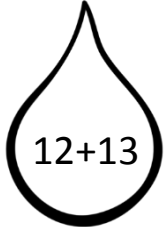
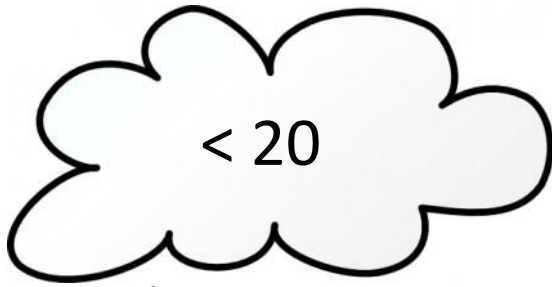


Interim framework statement: The pupil can use estimation to check their answers to a calculation are reasonable (e.g. knowing that  $48+35$  will be less than 100).

Can I use estimation to check calculation answers?

Colour the raindrop that you estimate to be the correct answer or calculation for each rain cloud.



Interim framework statement: The pupil can subtract mentally a two-digit number from another two-digit number when there is no regrouping required (e.g. 74-33).

Can you work out the difference in temperature between London and Amazonia, using the data in the tables?

*Average maximum temperature in London, England*

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Temp (°C)	4	5	7	9	12	16	18	17	15	11	8	5

*Average maximum temperature in Amazonia. Brazil*

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Temp (°C)	31	31	31	30	29	28	28	28	28	29	30	30

*In your books, use this information to draw your own table, completing the difference between the temperatures.*

Month	London	Amazonia	Difference

*In which month is the largest difference in temperature?*

*In what month is the rainforest the hottest?*

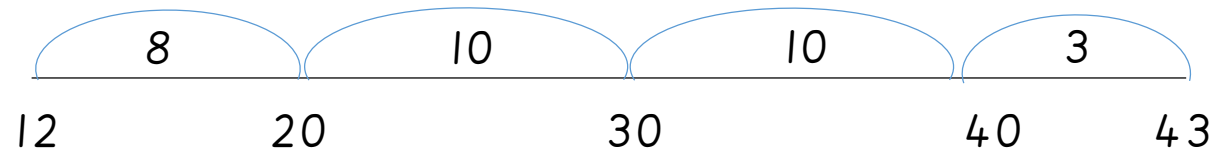
*Which month has a difference of 10 degrees?*

Interim framework statement: The pupil can subtract mentally a two-digit number from another two-digit number when there is no regrouping required (e.g. 74-33).

## Can I subtract two digit numbers?

Using a numberline, can you subtract these two digit numbers?

e.g.  $43 - 12$



$$10 + 10 + 8 + 3 = 31$$

Show Me	Confident		Challenge
$40 - 38 =$	$34 - 16 =$	$64 - 25 =$	$63 - \square = 40$
$20 - 16 =$	$57 - 29 =$	$43 - 28 =$	$78 - \square = 51$
$70 - 41 =$	$51 - 33 =$	$81 - 43 =$	$81 - \square = 67$
$60 - 12 =$	$82 - 27 =$	$32 - 29 =$	$100 - \square = 83$
$60 - 43 =$	$61 - 36 =$	$71 - 56 =$	$51 - \square = 17$

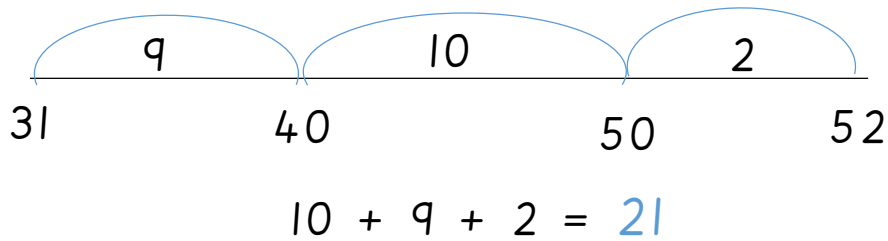
Apply: If Miss Smith paid for her 38p coffee with £1, how much change would she get?

Interim framework statement: The pupil can work out mental calculations where regrouping is required (e.g.  $52 - 27$ ;  $91 - 73$ ).

## Finding Missing Numbers

Using a numberline, can you find the missing numbers in the number sentences below?

e.g.  $31 + \square = 52 \longrightarrow 52 - 31 = \square$



Show Me	Confident
$16 = \square + 8$	$\square + 21 = 35$
$14 = \square + 8$	$31 + \square = 52$
$11 + \square = 23$	$14 + \square = 42$
$28 = 10 + \square$	$63 = 45 + \square$
$14 + \square = 8$	$\square + 25 = 100$

## Challenge

$$\square + 11 = 25 + 14$$

$$13 + 12 = \square + 10$$

$$28 + 14 = \square + 21$$

$$10 + 23 = \square + 3$$

$$17 + 15 = \square + 12$$

$$32 + 8 = \square + 20$$

$$8 + 18 + 5 = 3 + \square + 15$$

Interim framework statement: The pupil can recognise the inverse relationships between addition and subtraction and use this to check calculations and work out missing number problems.

If I know... What else do I know?

For example: If I know  $3 + 7 = 10$

I also know...

$$30 + 70 = 100 \quad 13 + 7 = 20 \quad 10 - 3 = 7 \quad 100 - 30 = 70$$

If I know  $6 + 4 = 10$

I also know...

If I know that  $10 - 2 = 8$

I also know...

If I know that  $20 - 14 = 6$

I also know...

Now write one of your own

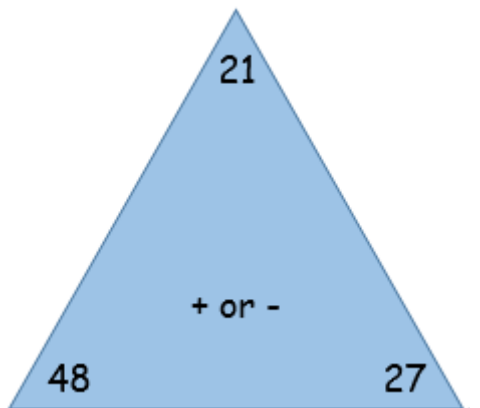
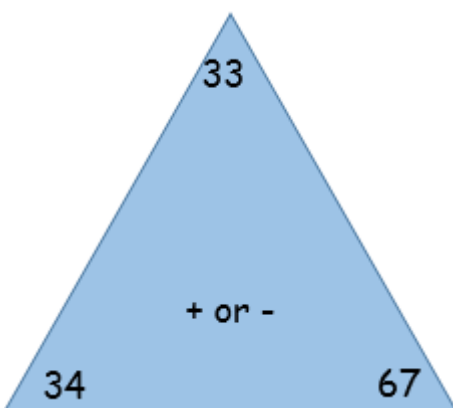
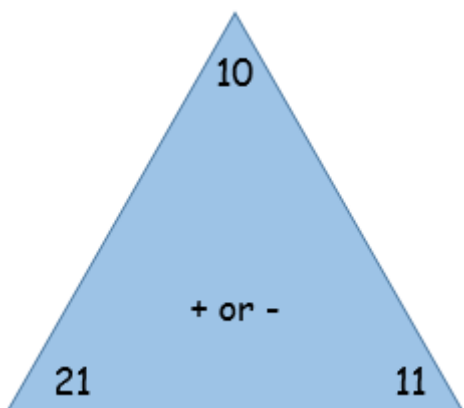
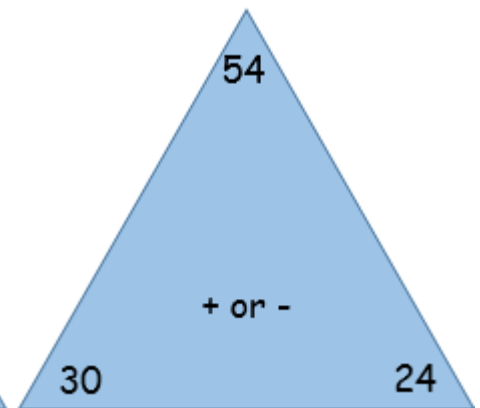
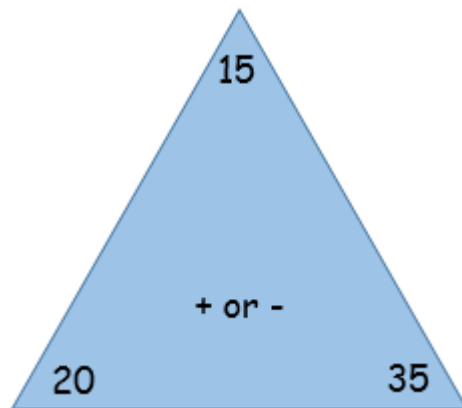
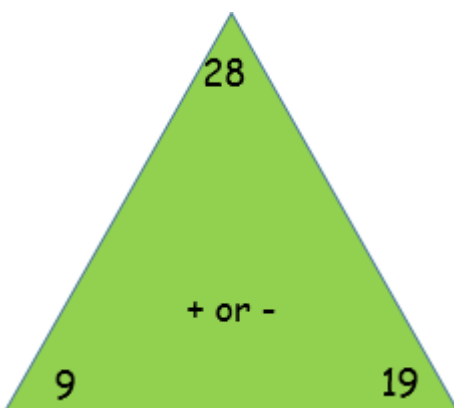
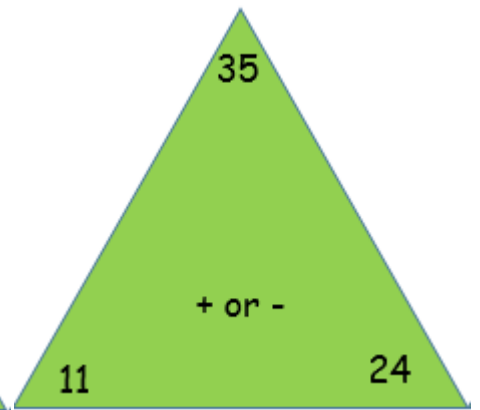
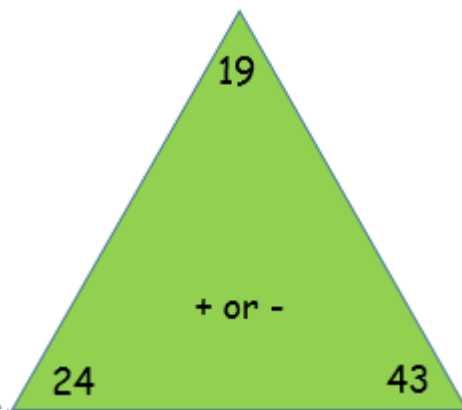
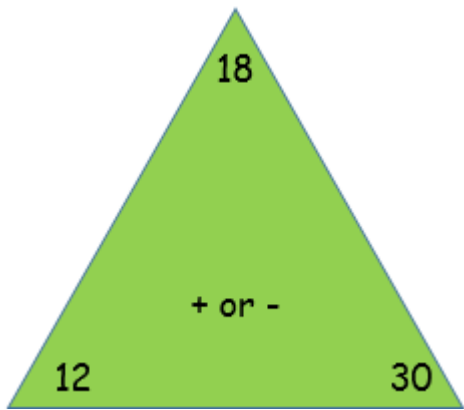
If I know \_\_\_\_\_

I also know...

Interim framework statement: The pupil can recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables to solve simple problems, demonstrating an understanding of commutativity as necessary. (E.g. stating the total value of six 5p coins).

## Can I do inverse calculations?

Using only the numbers in the triangles, can you write four number sentences? Stick the triangles in your book and write the number sentences underneath.



Can you write the inverse number sentences for:

$$45 + 35 = 100?$$

Interim framework statement: The pupil can recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables to solve simple problems, demonstrating an understanding of commutativity as necessary. (E.g. stating the total value of six 5p coins).

Are these calculations correct?

Cut and stick the calculations under the headings 'correct' or 'incorrect', using jottings and calculations to show your reasoning.

$8 \times 5 = 40$	$12 \div 2 = 7$
$10 \div 2 = 5$	$40 \div 5 = 8$
$30 \div 10 = 4$	$5 \times 5 = 20$
$2 \times 9 = 18$	$6 \times 5 = 35$
$0 \times 5 = 5$	$5 \times 8 = 30$
$5 \times 9 = 40$	$3 \times 5 = 16$
$0 \times 2 = 2$	$10 \times 10 = 100$
$2 \times 10 = 20$	$5 \times 10 = 30$
$9 \times 10 = 80$	$35 \div 5 = 7$
$22 \div 2 = 10$	$60 \div 10 = 5$

Interim framework statement: The pupil can use different coins to make the same amount (e.g. pupil uses coins to make 50p in different ways; pupil can work out how many £2 coins are needed to exchange for a £20 note).



**The bag of sweets costs 45p**

How many different ways can you make 45p, using only coins?



**This pack of biscuits costs 65p**

What is the largest amount of coins you can use to pay for the biscuits?

What is the smallest amount of coins you can use to pay for the biscuits?



Interim framework statement: The pupil can use different coins to make the same amount (e.g. pupil uses coins to make 50p in different ways; pupil can work out how many £2 coins are needed to exchange for a £20 note).

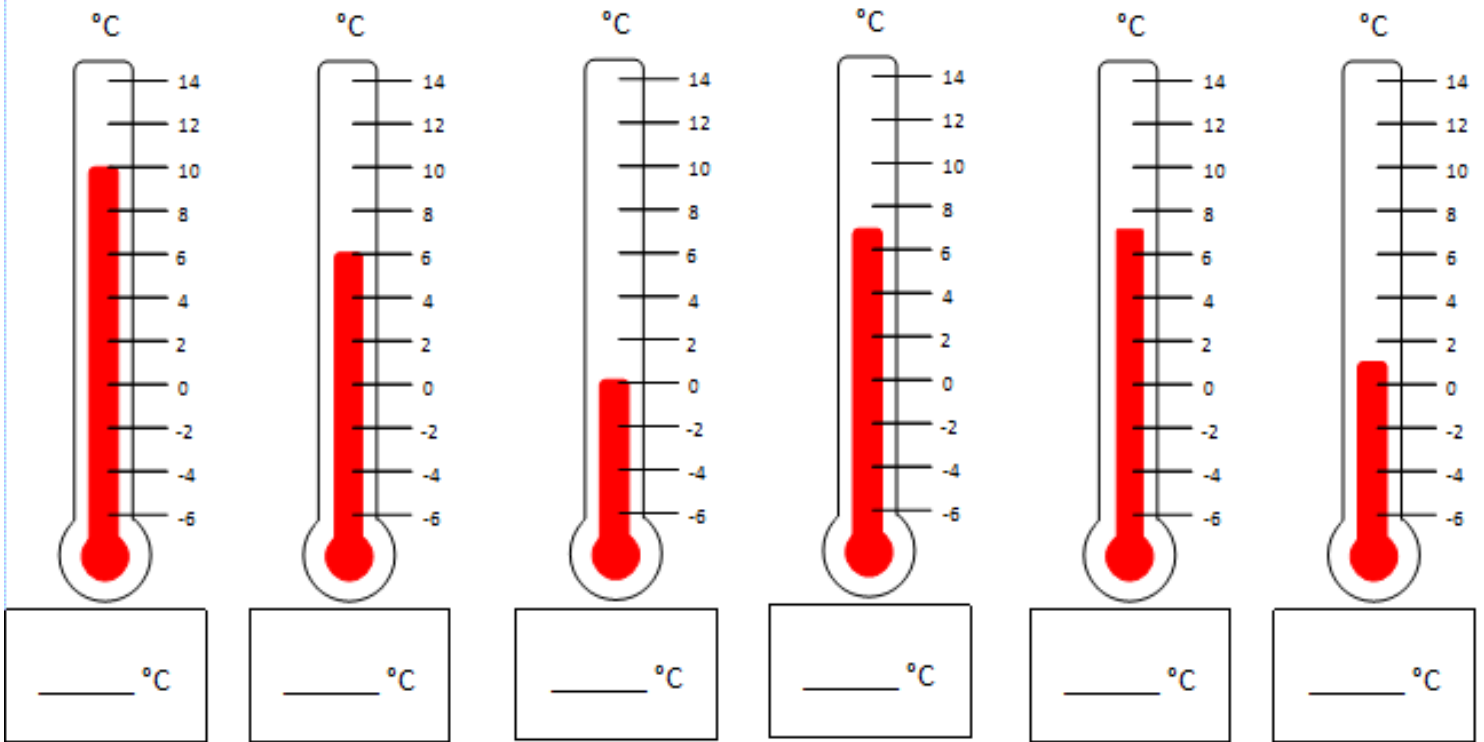
## Can I make amounts with different coins?

Penguins cost 25p, Tortoises cost 50p, the Lizards cost 75p and the Koala costs £1. Can you find 3 different ways to make these amounts?



Interim framework statement: The pupil can read scales in divisions of ones, twos, fives and tens in a practical situation where all numbers on the scale are given. (E.g. pupil reads the temperature on a thermometer or measures capacities using a measuring jug.)

Can I read the temperature on a thermometer?



Can I draw the temperature on a thermometer?

