Maths

Addition and Subtraction


A Muddy Mess
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Quality Standard
Approved

Aim

- I can use inverse relationships to solve missing number problems.

Success Criteria

- I can use subtraction to find a missing number in an addition number sentence.
- I can use addition to find a missing number in a subtraction number sentence.
- I can use 'difference' to find a missing number in an addition or subtraction number sentence.

Make Me 2

How many ways can you find to make me by adding or subtracting 2 or more numbers?

Work with a partner.

I am the number 15.

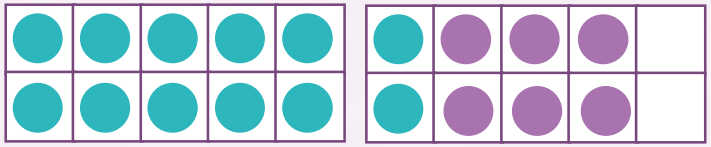
Ingrid Inverses

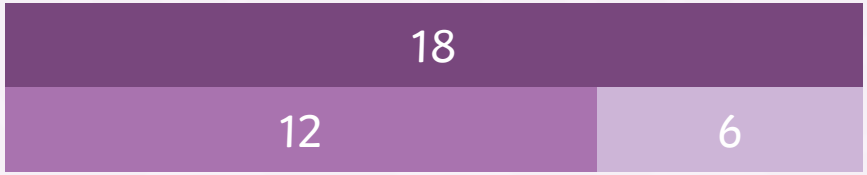
$12 + 6 = 18$ $18 - 6 = 12$

What do you notice?

If I subtract the amount I added, I get back to where I started.

+ and − are inverses.





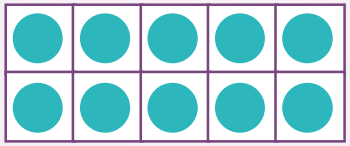
Ingrid Inverses

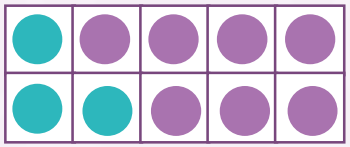
20 - 7 = 13 13 + 7 = 20

What do you notice?

If I add the amount I subtracted, I get back to where I started.

+ and − are inverses.





Mind the Gap

We can check our work with an inverse e.g.

18 + 13 = 31

Can be checked with...

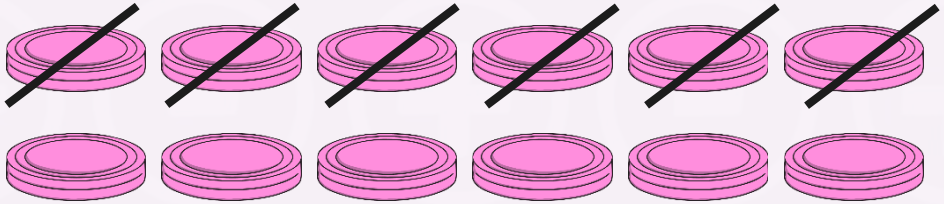
31 – 13 = 18

We can find gaps in number sentences using inverses too!

? + 6 = 18

Can be solved with...

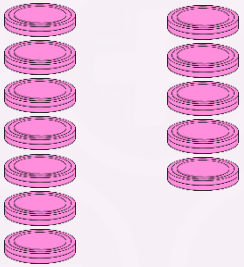
18 – 6 = ?



Mind the Gap

These look tricky but if we use an inverse, they are easy!

? + 7 = 12

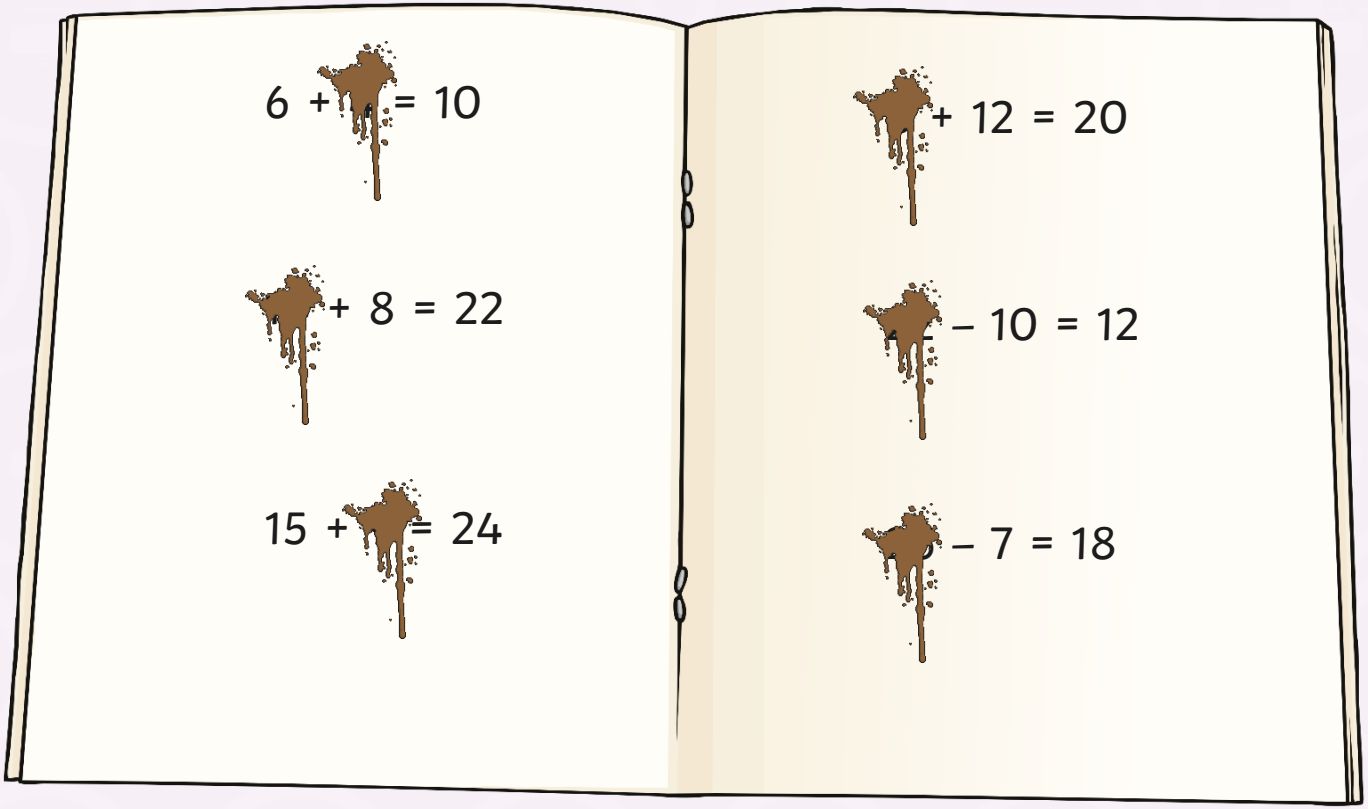


I don't know what I started with but I took away 7 and I am left with 5.

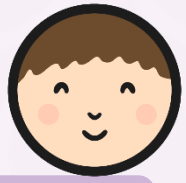
So if I add them back together, I can find out how many I had to begin with.

Mud Splats

Oh no! Ben's work is covered in mud! Can you help him work out the missing numbers? Click on the mud splats to reveal the numbers.



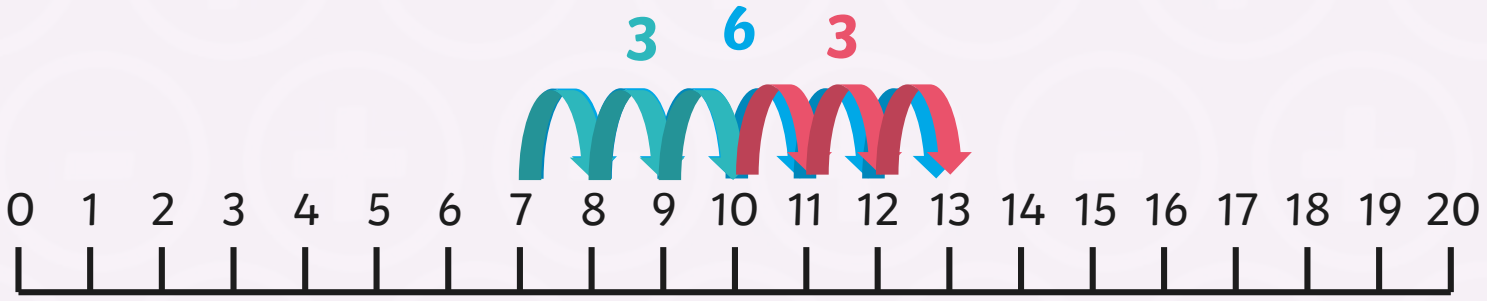
Find the Difference



Remember, finding the difference is a type of subtraction!

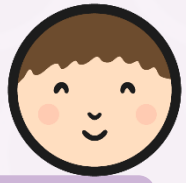
This can really help with missing number sentences.

$$7 + ? = 13$$



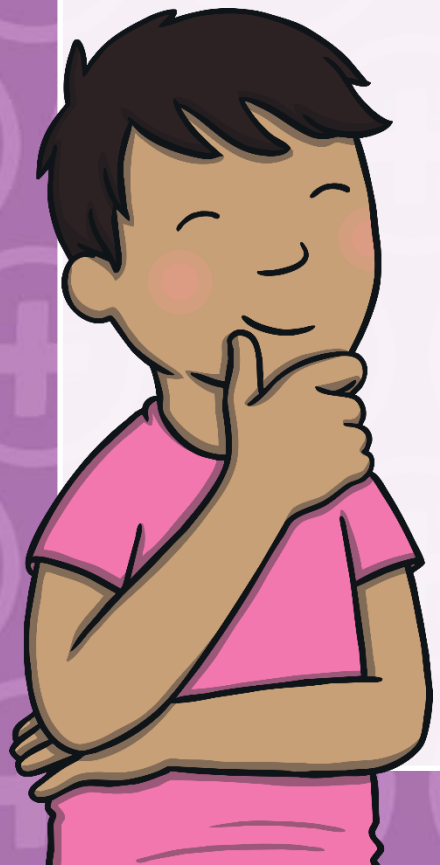
The difference between 7 and 13 is 6.
So 7 + 6 = 13.

Find the Difference



Use the 'find the difference' method to solve these missing number sentences.

Circle each number on your number line and count the jumps between.



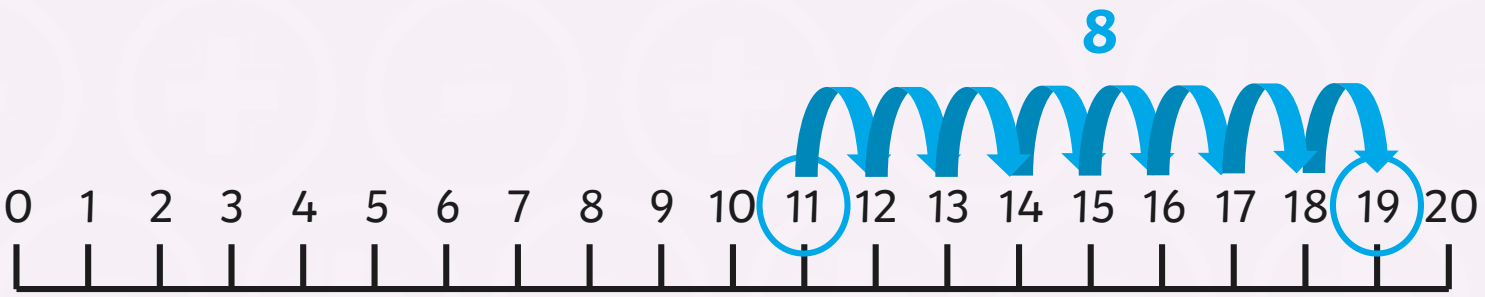
$? + 11 = 19$

$27 + ? = 34$

$25 - ? = 16$

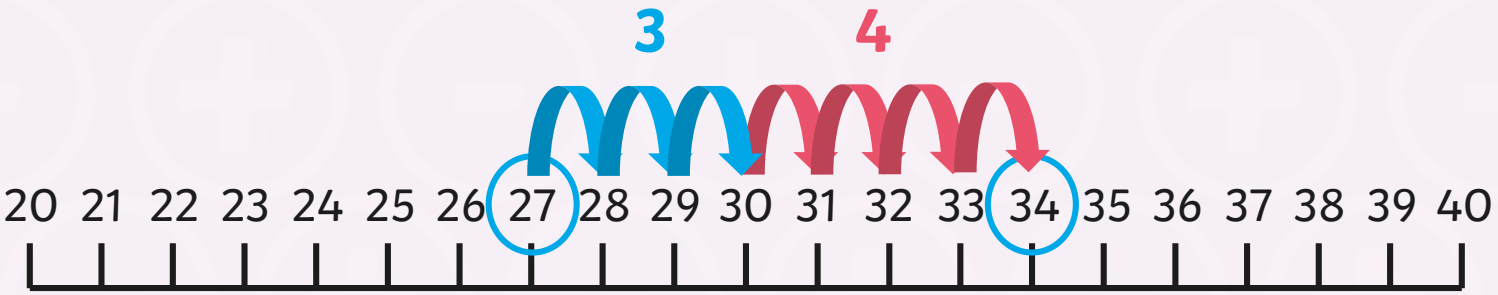
Find the Difference

$8 + 11 = 19$



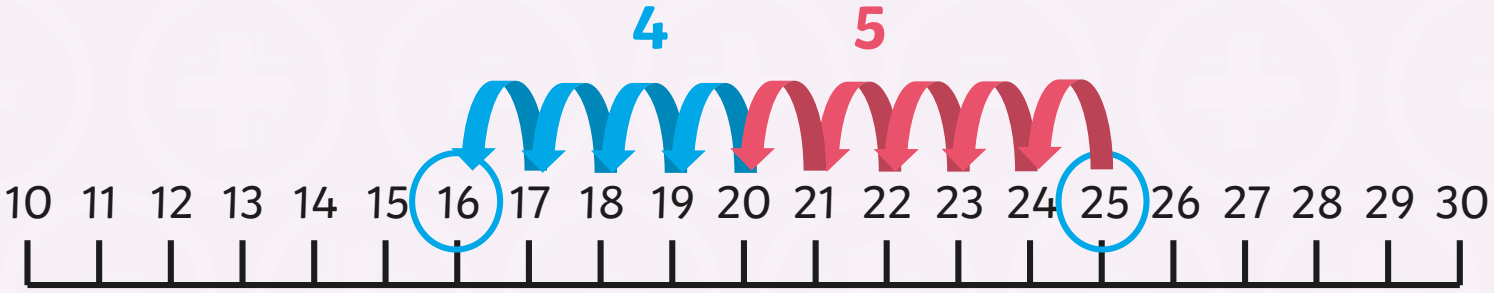
Find the Difference

$$27 + 7 = 34$$



Find the Difference

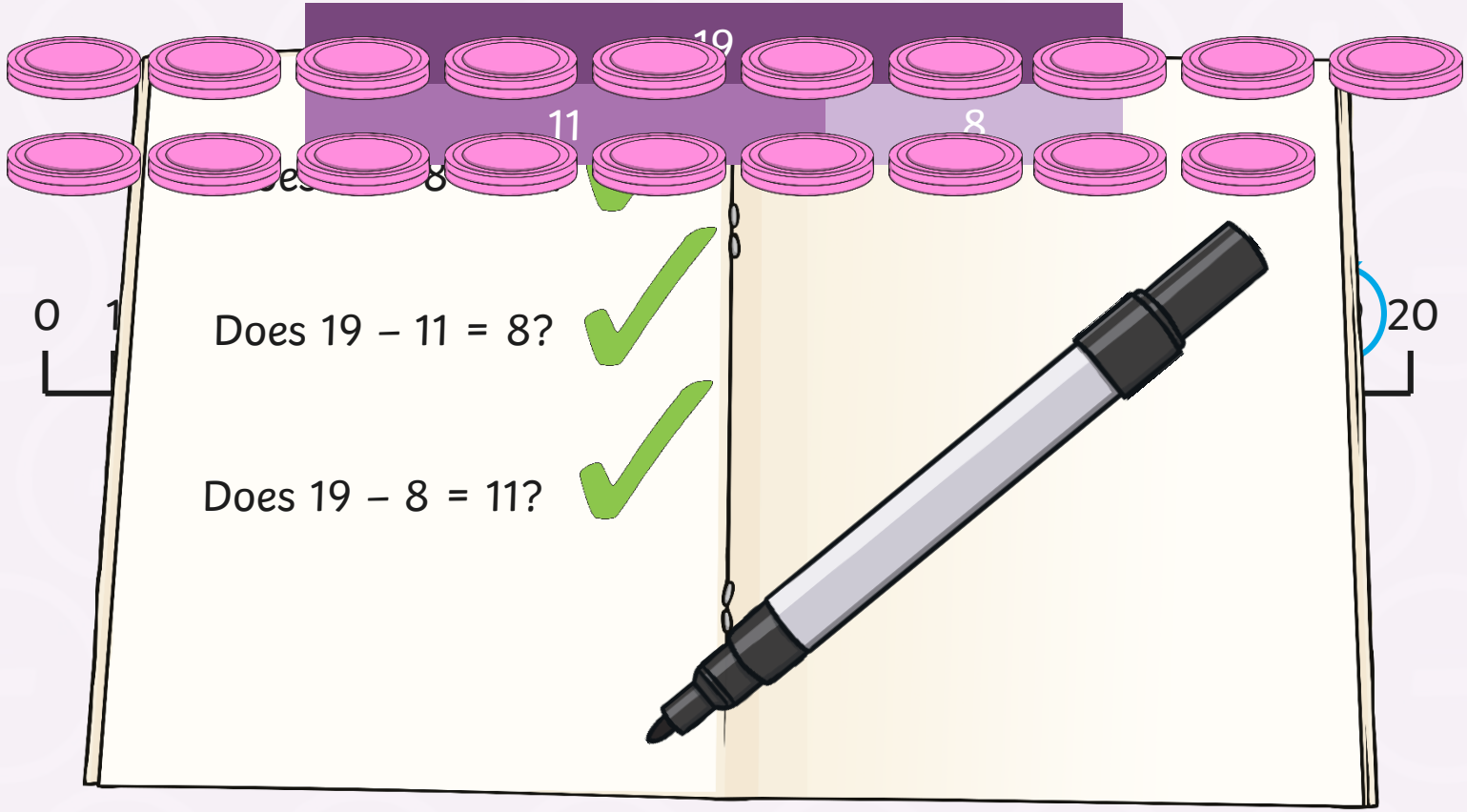
25 – 9 = 16



Making Sense

Whole Class

Check with equipment.



A Muddy Mess

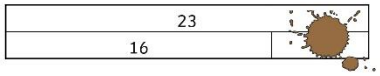
A Muddy Mess

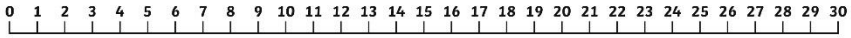
I can use inverse relationships to solve missing number problems.

Ben has splashed mud on his work again!

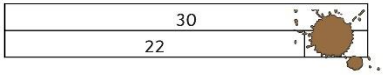
Use inverses to help uncover the muddy numbers. Use equipment to check that your answer makes sense and draw the jumps on the number line.

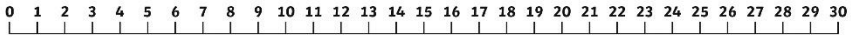
1. 16 + ▪ = 23





2. 30 - ▪ = 22





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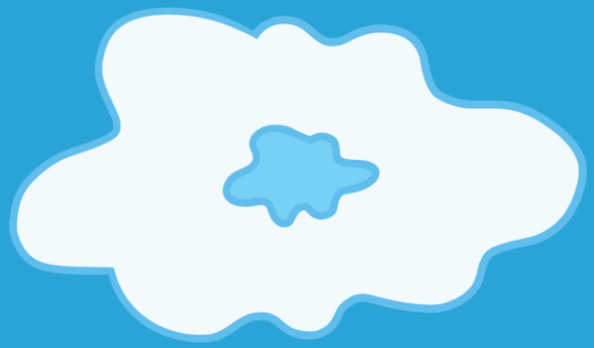

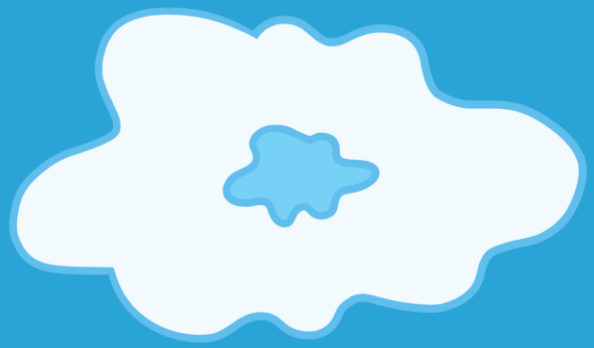

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