

Find and Recall Number Bonds of 10

Adult Guidance with Question Prompts



Children represent and use number bonds of ten. In this activity, children build fluency by systematically investigating number bonds of ten. Children will require ten counters in one colour and ten in another colour.

Can you fill the ten-frame with counters of one colour?

How could we write this as a calculation?

Can you take one counter off and change it for a different colour?

What calculation is represented by the counters?

Can you keep going, swapping one counter at a time and recording your calculations?

How many different ways have you found?

Are they all different?

Is four yellow + six red different to six yellow + four red?

Children should identify the six different ways:

$$0 + 10$$

$$1 + 9$$

$$2 + 8$$

$$3 + 7$$

$$4 + 6$$

$$5 + 5$$

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Using counters of two colours, find all the different ways of filling the ten-frame.

How many different ways can you find?

Record the ways with calculations.



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Children represent and use number bonds of ten. Children develop their reasoning skills as they compare different representations of number bonds of ten.

What different representations can you see?

What number bond is being represented by each one?

Can you see one that doesn't represent the same number bond as the others?

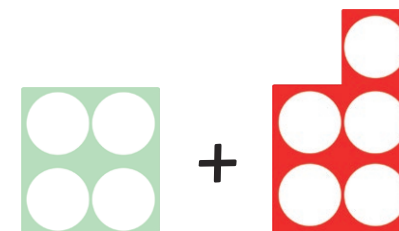
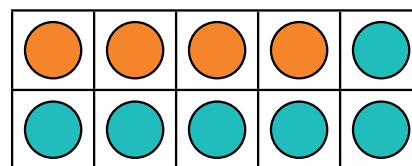
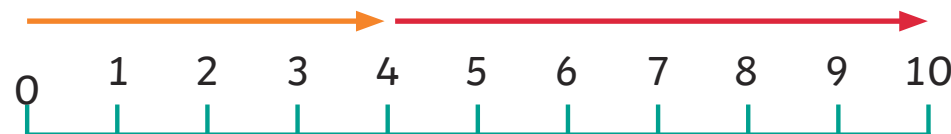
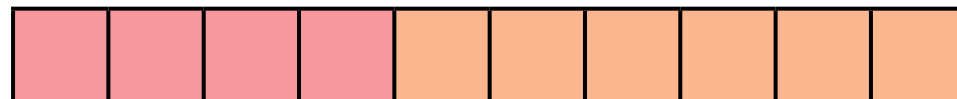
Explain why.

Can you think of a different way of representing $4 + 6 = 10$ using equipment in the classroom?

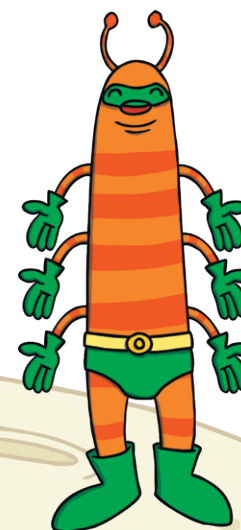
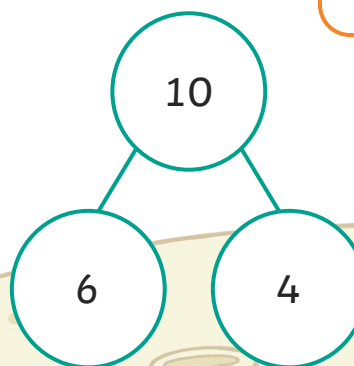
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Zag has made different representations of 10.
Which is the odd one out?



$$10 = 4 + 6$$



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Children represent and use number bonds of ten. Children develop their problem-solving skills as they investigate challenges with number bonds of ten. Children can use a ten-frame for this challenge.

Can you show me how you solved the problem?

Can you use your ten-frame to explain your answer?

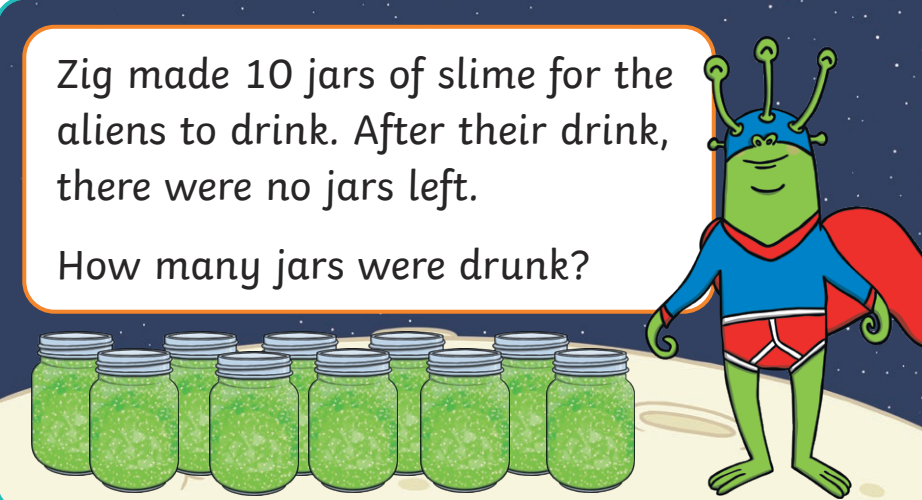
How can you check if you are right?

Can you make up a problem of your own?

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Zog made 10 cakes. He ate 2.
How many are left?

A cartoon illustration of a red alien with three antennae and a white spacesuit standing on a yellow, cratered surface. To his right are two brown paper cups with light blue frosting. The background is a dark blue space with white stars.

Zig made 10 jars of slime for the aliens to drink. After their drink, there were no jars left.
How many jars were drunk?

A cartoon illustration of a green alien with three antennae, wearing a blue superhero suit with a red cape and red shorts, standing on a yellow, cratered surface. To his left are ten identical glass jars filled with green, bubbly slime. The background is a dark blue space with white stars.

Can you think of your own number bond challenges for the aliens?