

To be able to explore using part-whole models

MathShed

Starter:  
What do all the groups of objects below have in common?

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Activity 1:  
Complete the part-whole models below.

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Activity 2:  
Here are nine counters.  
Put the counters into a part-whole model.

Complete the sentences:  
\_\_\_ is the whole.  
\_\_\_ is a part.  
\_\_\_ is a part.  
\_\_\_ is a part.

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Activity 3:  
Draw the part whole models that match the following sentence:

7 is the whole.  
2 is a part.  
5 is a part.

10 is the whole.  
7 is a part.  
3 is a part.

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Activity 4:  
If 5 is the whole, how many different part-whole models can you draw to show different parts that make the whole.

Are any of the number pairs the same?  
Explain why.

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Activity 5:  
Split class into groups of between 7, 8 or 9 children.

How many different ways can you split yourselves into groups?  
(Gender, height, clothing, eye colour, hair colour...)

Complete a part-whole model for the different groupings you think of in your group.

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Evaluation:

How many different ways can the objects below be grouped into part-whole models?

