

Maths Investigations – Week 1

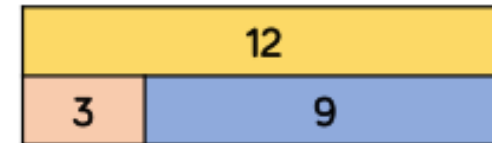
Number Bonds and Calculations

These investigations are to help you develop your problem-solving skills and your reasoning skills, you can do as many as you like. Please make sure you show your workings out, use jottings and anything else you might need to

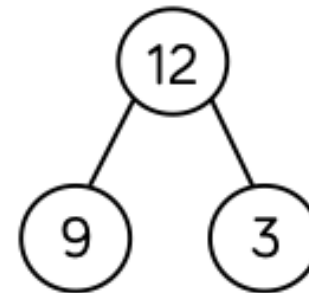
Investigation 1: Compare Number Sentences.

Which of the representations are equivalent to the bar model?

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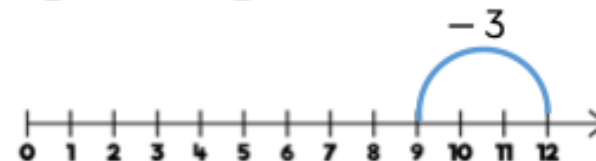


$$12 = 9 + 3$$



There are 9 cars in a car park, 3 cars leave.

$$9 - 3 = 12$$



Investigation 2: Check Calculations

Eva did the following calculation:

$$12 - 8 = 4$$

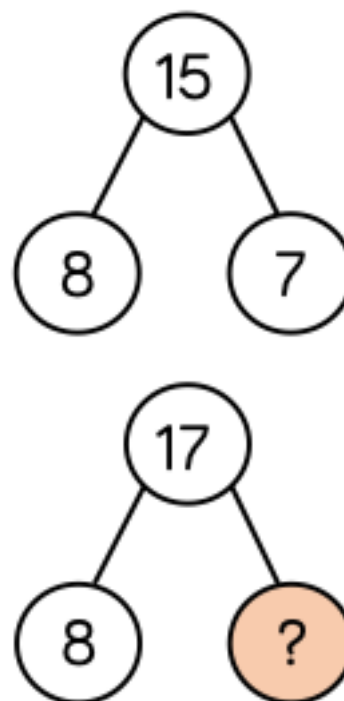
She checked it by using the inverse.

She did $12 + 8 = 20$ and said that her first calculation was wrong.

What advice would you give her?

Investigation 3: Compare Number Sentences

Eva thinks she knows the missing number without calculating the answer.



Can you explain how this could be possible?