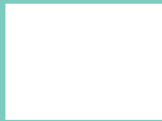


Maths Mastery Negative Numbers Challenge Cards



Negative Numbers

Maths Mastery Challenge Cards

1. Work with a partner. Challenge your partner by asking them to count by giving:

Starting number

Step

Direction

e.g. Count in 5s, from 12, backwards:

12, 7, 2, -3, -8, -13

A good challenge is one where your partner gets most correct, but may need to really think.

Negative Numbers

Maths Mastery Challenge Cards

2. Giving reasons, explain whether the following are true or false:

Nineteen less than eleven is minus eight.

$$-39 + 23 = -62$$

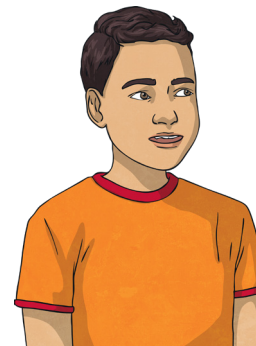
27 more than -18 is -45.

The temperature is -5°C outside and 23°C inside. The difference is 18°C .

Negative Numbers

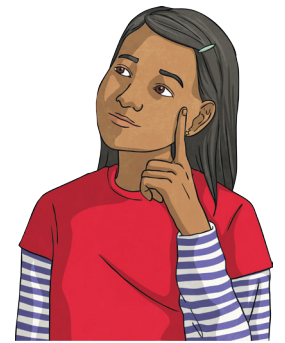
Maths Mastery Challenge Cards

3. Write an explanation, using visual models if needed, showing how to calculate the answers to these problems:



$$12 - 21 =$$

$$-8 + 23 =$$



Compare your explanation with a partner. Can you make any improvements?

Negative Numbers - Answers

1. No answers - will vary depending on numbers given by child

2.

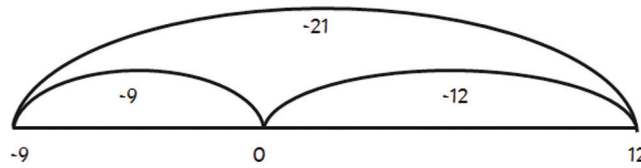
True.

False - the answer is -16. The answer gets closer to 0, so +20 to -19, and +3 more to -16.

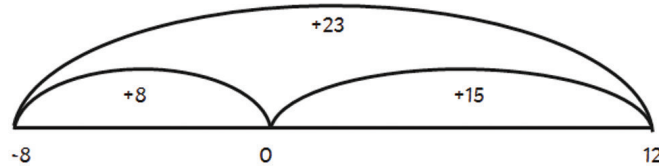
False - the answer is 9. The answer goes through 0, so +18 to 0, and +9 more to 9.

False - the answer is 280C. The answer goes through 0, so -5 to 0 is 5, and 0 to 23 is 23. $5 + 23 = 28$.

3.



-21 can be split into -12 to 0 and -9 beyond 0 to -9.



+23 can be split into +8 to 0 and +15 beyond 0 to 15