Maths Mastery Negative Numbers
Challenge Cards

twinkl

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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.

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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.

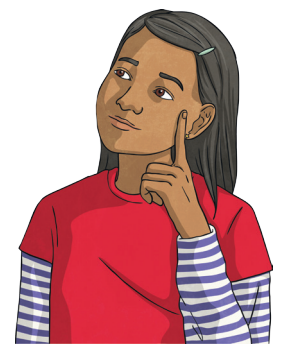**The temperature is -5°C outside and 23°C inside. The difference is 18°C.**

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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**

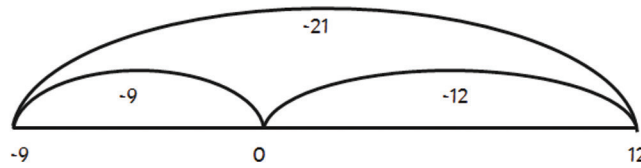1. No answers – will vary depending on numbers given by child

2.

True.

False – the answer is -16. The answer gets closer to 0, so +20 to -19, and +3 more to -16.
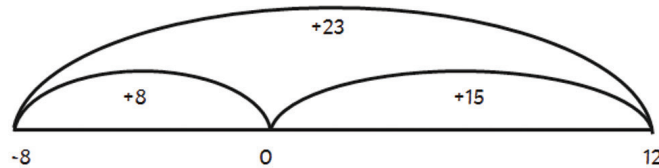
False – the answer is 9. The answer goes through 0, so +18 to 0, and +9 more to 9.

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