

Negative Numbers

Advanced — ANSWER KEY

Chains, jumps, and distances.

Think: Distance between two numbers = the big one minus the small one (subtracting a negative adds).

1. Answers with the thinking.

- 1) Compute: $9 - 18 + 6 = ?$ **-3**

↳ left 18, then right 6

- 3) On a number line, how far apart are -3 and 6? **9**

↳ distance = $6 - (-3)$

- 5) On a number line, how far apart are -10 and 8? **18**

↳ distance = $8 - (-10)$

- 7) The temperature changed from -11°C to 12°C . By how many degrees did it RISE? **23**

↳ $12 - (-11)$

- 9) The temperature changed from -9°C to 11°C . By how many degrees did it RISE? **20**

↳ $11 - (-9)$

- 11) The temperature changed from -9°C to 1°C . By how many degrees did it RISE? **10**

↳ $1 - (-9)$

- 2) The temperature changed from -12°C to 11°C . By how many degrees did it RISE? **23**

↳ $11 - (-12)$

- 4) On a number line, how far apart are -6 and 5? **11**

↳ distance = $5 - (-6)$

- 6) The temperature changed from -2°C to 8°C . By how many degrees did it RISE? **10**

↳ $8 - (-2)$

- 8) Compute: $8 - 16 + 15 = ?$ **7**

↳ left 16, then right 15

- 10) Compute: $(-4) \times 2 = ?$ **-8**

↳ 2 jumps of -4

- 12) Compute: $3 - 20 + 5 = ?$ **-12**

↳ left 20, then right 5