

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) On a number line, how far apart are -2 and 9 ? **11**

↳ distance = $9 - (-2)$

- 3) On a number line, how far apart are -1 and 9 ? **10**

↳ distance = $9 - (-1)$

- 5) On a number line, how far apart are -7 and 5 ? **12**

↳ distance = $5 - (-7)$

- 7) Compute: $3 - 12 + 4 = ?$ **-5**

↳ left 12, then right 4

- 9) Compute: $(-5) \times 2 = ?$ **-10**

↳ 2 jumps of -5

- 11) Compute: $(-4) \times 4 = ?$ **-16**

↳ 4 jumps of -4

- 2) Compute: $(-3) \times 3 = ?$ **-9**

↳ 3 jumps of -3

- 4) The temperature changed from -2°C to 11°C . By how many degrees did it RISE? **13**

↳ $11 - (-2)$

- 6) Compute: $3 - 13 + 2 = ?$ **-8**

↳ left 13, then right 2

- 8) Compute: $(-4) \times 3 = ?$ **-12**

↳ 3 jumps of -4

- 10) Compute: $10 - 15 + 15 = ?$ **10**

↳ left 15, then right 15

- 12) On a number line, how far apart are -8 and 1 ? **9**

↳ distance = $1 - (-8)$