Year 6 Integers topic test

12 questions | 19 marks | 30 minutes

A hand-solvable review that progresses from familiar skills to explanation and practical problems.

Equivalent correct methods earn the corresponding marks.

1. Write 8 degrees below zero as a signed temperature. [1 mark]

Below zero is negative.

Answer: $-8\,^{\circ}\mathrm{C}$.

2. Write 14 metres above sea level as a signed height. [1 mark]

Above the reference is positive.

Answer: $+14$ m or 14 m.

3. Explain a balance of -25 dollars. [2 marks]

Use zero balance as the reference.

Answer: 25 dollars is owed, or the account is 25 dollars below zero.

4. Which is greater: -8 or -3? [1 mark]

-3 is to the right of -8.

Answer: -3.

5. Order -2, 5, -6, 0 and 1 from least to greatest. [2 marks]

Use left-to-right positions.

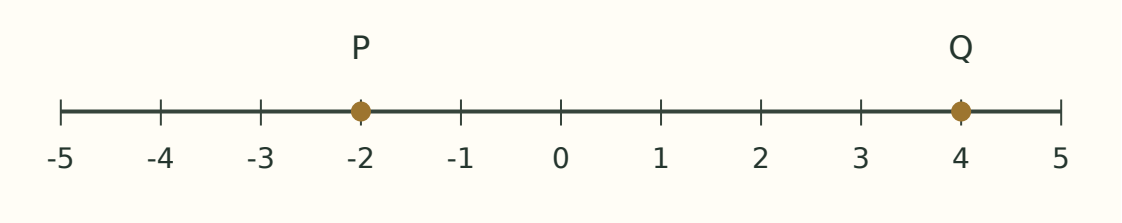
Answer: -6, -2, 0, 1, 5.

6. Complete -7 __ 0 using $<$ or $>$. [1 mark]

Every negative integer is less than zero.

Answer: $-7 < 0$.

7. Read P and Q on the supplied line. [2 marks]



Each tick represents one unit.

Answer: $P = -2$; $Q = 4$.

8. Consecutive ticks read -12, -8, -4, 0. What is one interval worth and what comes next? [2 marks]

Increase by 4 each step.

Answer: 4 units; next label 4.

9. How many units apart are -4 and 5? [2 marks]

Four units to zero plus five beyond it.

Answer: 9 units.

10. Describe $(-3, -2)$ from the origin. [2 marks]

Both coordinates are negative.

Answer: 3 left and 2 down.

11. Write coordinates for 5 right and 4 up. [1 mark]

Both directions are positive.

Answer: $(5, 4)$.

12. Ava says $-9\,^\circ\mathrm{C}$ is warmer than $-1\,^\circ\mathrm{C}$ because 9 is larger than 1. Explain why she is wrong. [2 marks]

Among negative temperatures, the one closer to zero is warmer.

Answer: $-9\,^\circ\mathrm{C}$ is colder; it is further below zero.