

Integers

Chapter 1: Integers · Topic 1

Key Concept

When adding integers with the same sign, we add their values and keep the sign, like $(-3) + (-4) = -7$.

When adding integers with different signs, we subtract the smaller value from the larger and take the sign of the larger, like $(-5) + 3 = -2$.

When multiplying or dividing integers, like signs give a positive result, and different signs give a negative result.

Understanding integer operations is essential for solving real-life problems involving temperatures, money, and elevation.

Quick Revision Notes

- Integers include positives, negatives and zero.
- Same-sign addition: add values, keep sign.
- $(-3) + (-4) = -7$.
- Different-sign addition: subtract, take larger's sign.
- $(-5) + 3 = -2$.
- Same signs in multiplication/division give positive.
- Different signs give negative results.
- Integer operations apply to temperature and money.

Practice Questions

- 1 Solve: $(-8) + (-5)$.
- 2 Solve: $(-7) + 10$.
- 3 Solve: $(-6) \times 3$.
- 4 Solve: $(-20) \div 4$.
- 5 Discuss a real-life example using negative integers.
- 6 Solve three mixed integer operation problems.