BEDMAS Integers.

KEY

Lesson N: Pages 54–57

Order of Operations with Integers

1. **a)** 0 **b)** −35 **c)** +81 **d)** +4

2. e.g., [(+3) + (−2)] × (+5) − (−9) = (+14)

3. **a)** −49

b) −7

c) e.g., Without the square brackets, you have to multiply (+3) × (−2) first, which changes the sum.

4. **a)** 0 °C **c)** −25 °C

b) +35 °C **d)** −10 °C

5. **a)** Expression 1: +4; Expression 2: −7

b) e.g., They have the same digits and the same operations in the same order.

c) e.g., Expression 2 has integers instead of whole numbers and brackets around the subtraction, which means you do it first. The first multiplication is × (−2), which is different from × 2 in Expression 1.

6. no; −6

7. **a)** (−2) × [(+3) + (−2)] × (−1) = (+2)

b) (−5) × (+4) ÷ (−10) − [(−2) + (−3)] = (+7)

8. +80

9. **a)** e.g., (+5) × (−4) − (−6) × (−3) = −38

c) e.g., (+5) × [(−4) − (−6) × (−3)] = −110

11. e.g., (+8) × (−5) ÷ (−4) − [(+7) + (−4) × (−2)] = (−5)