

1

3. Which expression does not equal +3?

- A $(-3) \times (-1) \div (+1)$
- B $(+3) \div (-1)$
- C $(+27) \div (+9)$
- D $(+27) \div (-3) \div (-3)$

6. What is the value of the expression

$$(+2) \times [(+5) - (-3)] + (-6)?$$

- A +10
- B +7
- C +4
- D -2

2

Check Your Understanding

Practise

For help with #4 to #7, refer to Example 1 on page 313.

4. Calculate using the order of operations.

- a) $(+30) \div (-10) + (-20) \div (-1)$
- b) $(-2) \times [(+10) - (+8)] + (-7)$
- c) $(+6) + (+9) \times (-5) \div (-3)$

5. Calculate using the order of operations.

- a) $(-4) - (+8) \times (-2) - (+15)$
- b) $(-3) + (-18) \div (+2) \div (-3)$
- c) $(+16) \div [(+4) - (+2)] + (-4)$

6. Calculate.

- a) $(4 - 7) \times 2 + 12$
- b) $-10 \div 5 + 3 \times (-4)$
- c) $3 \times [14 + (-18)] - 8 \div (-4)$

7. Calculate.

- a) $-16 \div 2 \times (3 + 1)$
- b) $5 + (-9) \times 4 \div (-1)$
- c) $25 + (-10) - 3 \times [2 - (-2)]$

3

20. Write and evaluate an expression that represents each statement.

- a) Subtract the product of 3 and -8 from 20.
- b) Add the product of 4 and 5 to the product of -2 and -3 .
- c) Divide -62 by the sum of -11 and 9.
- d) Multiply the sum of -3 and -5 by 3, then divide by -4 and subtract 13.

Extend

21. Copy each statement. Complete it by including operation symbols.

- a) $2 \blacksquare 3 \blacksquare 4 \blacksquare 5 = -14$
- b) $3 \blacksquare [14 \blacksquare (-2)] \blacksquare 30 = 6$

22. The mean of two integers is -17 . The product of the two integers is 273. What are the two integers?

24. Here is one way of using four -2 s and the order of operations to write an expression that equals 1.

$$(-2) \div (-2) + (-2) - (-2)$$

Use four -2 s and the order of operations to write expressions that equal 2, 3, 4, 5, 6, and 8.