

LESSON
2-3**Applying Integer Operations****Practice and Problem Solving: A/B****Find the value of each expression.**

1. $(-3)(-2) + 8$

2. $(-18) \div 3 + (5)(-2)$

3. $7(-3) - 6$

4. $24 \div (-6)(-2) + 7$

5. $4(-8) + 3$

6. $(-9)(0) + (8)(-5)$

Compare. Write $<$, $=$, or $>$.

7. $(-5)(8) + 3$ $(-6)(7) + 1$

8. $(-8)(-4) + 16 \div (-4)$ $(-9)(-3) + 15 \div (-3)$

Write an expression to represent each situation. Then find the value of the expression to solve the problem.

9. Dave owns 15 shares of ABC Mining stock. On Monday, the value of each share rose \$2, but on Tuesday the value fell \$5. What is the change in the value of Dave's shares?

10. To travel the Erie Canal, a boat must go through locks that raise or lower the boat. Traveling east, a boat would have to be lowered 12 feet at Amsterdam, 11 feet at Tribes Hill, and 8 feet at Randall. By how much does the elevation of the boat change between Amsterdam and Randall?

11. The Gazelle football team made 5 plays in a row where they gained 3 yards on each play. Then they had 2 plays in a row where they lost 12 yards on each play. What is the total change in their position from where they started?

12. On Saturday, Mrs. Armour bought 7 pairs of socks for \$3 each, and a sweater for her dog for \$12. Then she found a \$5 bill on the sidewalk. Over the course of Saturday, what was the change in the amount of money Mrs. Armour had?

4.

Divisor	Dividend	Quotient
+	+	+
-	+	-
+	-	-
-	-	+

Reading Strategies

- 3,600 km; 225 km/h; 16 hours
- 35 degrees; 7 hours; 5 degrees per hour
- 1,600 liters; 2-liters/bottle; 800 bottles
- Answers will vary. Sample answers: "102 divided by negative 6." "Negative 6 goes into 102 how many times?"
- Answers will vary. Sample answers: "The opposite of 17 divided into negative 221." "Negative 221 divided by negative 17."

Success for English Learners

- $\frac{-210}{70} = -3$
- $300 \overline{) -4200} = -14$
- $-50 \div 10 = -5$
- $27 \overline{) 54} = 2$
- +, 1
- , -32
- , -4
- +, 5

LESSON 2-3

Practice and Problem Solving: A/B

- 14
- 16
- 27
- 15
- 29
- 40
- >
- >
- $15(2 - 5) = -45$; \$45 less

10. $(-12) + (-11) + (-8) = -31$; falls by 31 ft

11. $5(3) + 2(-12) = -9$; 9-yd loss

12. $7(-3) + (-12) + 5 = -28$; \$28 less

Practice and Problem Solving: C

- +10
- 18
- +104
- 28
- $8(-2 + 9 + 6)$
- gained \$68
- $4(-45) + 112 = -68$; 68 ft lower
- $17(5) + 5(-2) + 8 = 83$; She got an 83.
- $3(-20) + 2(-12) + (-42) + 57 - 15 = -84$; \$84 less
- a. Positive, because there is an even number of negative factors.
b. 2,880

Practice and Problem Solving: D

- $15 + (-12)$; 3
- $15 + 18$; 33
- $-7 + 23$; 16
- $52 + (-5)$; 47
- $(-50) + (-112) + (-46) = -208$; He has \$208 less.
- $8 + (-4) + 7 + 3 + (-11) = 3$; They had a 3-yd gain.
- $4(-2) + 2(-1) + 3 = -7$; She had \$7 less.
- $3(-4) + 4(-2) = -20$; The water was 20 in. lower.

Reteach

- multiplication
- addition
- division
- addition
- multiplication
- division
- multiplication
- subtraction
- 1
- 31