Lesson Practice • Part 2

Choose the correct answer.

1. Which is equivalent to the expression below?

$$6a - 7 + 2a - 4$$

A. $4a - 11$
B. $4a - 3$
C. $8a - 11$
D. $8a - 3$

2. Simplify the expression.

$$\frac{1}{2}(3^2 - 4)$$

A. $-1\frac{3}{4}$
B. $-\frac{1}{2}$
C. $\frac{1}{2}$
D. $2\frac{1}{2}$

3. Expand the expression.

$$-5(3b - 7)$$

A. $-15b - 7$
B. $-15b + 35$
C. $15b - 7$
D. $15b + 35$

4. What is the value of this expression when $c = 6$ and $d = 4$?

$$\frac{5}{2}c - 3d$$

A. 3
B. 8
C. 9
D. $11\frac{1}{2}$

5. Which is equivalent to the expression below?

$$4e + 6 - 2e + 5f + 2 - 2f$$

A. $6e + 3f + 4$
B. $6e + 7f + 8$
C. $2e + 7f + 4$
D. $2e + 3f + 8$

6. Which shows the simplified and completely factored form of this expression?

$$8g + 12g + 10h + 18h$$

A. $2(10g + 14h)$
B. $4(5g + 7h)$
C. $5(4g + 6h)$
D. $10(2g + 3h)$

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7. Simplify the expression.

$(3 + 5)^2 - 4 \cdot 6 - 8 \div 2$

A. 16
B. 36
C. 120
D. 176

8. Simplify the expression.

$\frac{42 - 6^2}{3}$

A. 2
B. 10
C. 30
D. 432

9. Which shows the simplified and completely factored form of this expression?

$4j + 6k + 8j + 10k$

A. $2(6j + 8k)$
B. $3(4j + 5k)$
C. $4(3j + 4k)$
D. $6(2j + 3k)$

10. What is the value of this expression when $m = -6$ and $n = 4$?

$m^3 - 2n^2$

A. -248
B. -152
C. 152
D. 184

11. Luis wrote this expression on the board.

$16p + 8q + 12p + 6q$

A. Write the simplified and completely factored form of the expression.

B. Evaluate the expression when $p = 6$ and $q = -3$. Show your work.

12. Draw a line from each expression to its value.

A. $6^2 - 30 + 5$	•	• 1
B. $(20 + 4 \times 9) \div 8$	•	• 7
C. $10(7 - 2) + 20$	•	• 11
D. $28 \div 7 - 3$	•	• 70