

**Ready® Mathematics****Unit 3 Mid-Unit Assessment****Form A****Solve the problems.**

- 1** A store starts the day with 36 packages of juice boxes. Each package contains the same number of juice boxes. By the end of the day, there are only 8 packages of juice boxes left.

**Part A**

Write an expression with two terms to represent the number of juice boxes the store sold.

**Part B**

Simplify your expression to create an equivalent expression.

- 2** Which expressions equal 32? Choose all that apply.

**A**  $2^5$

**B**  $\frac{4^3}{2}$

**C**  $2^3 \cdot 2 + 2$

**D**  $5^2 \cdot 3 - (8 \cdot 5)$

**E**  $\frac{(4 + 5)^2 - 17}{2}$



**Unit 3 Mid-Unit Assessment** *continued***Form A**

- 3** Mr. Suarez orders a cube of clay for his art classes. The height of the cube is 12 inches. Write and simplify an exponential expression to find how much clay Mr. Suarez ordered.

**Show your work.**

Mr. Suarez ordered \_\_\_\_\_ cubic inches of clay.

- 4** Consider the expression  $7x^2 + 9 + 3x$ . Tell whether each statement is *True* or *False*.

- |  |                               |                                |
|--|-------------------------------|--------------------------------|
| a. The expression has three terms.                   | <input type="checkbox"/> True | <input type="checkbox"/> False |
| b. The coefficient of $x$ is 3.                      | <input type="checkbox"/> True | <input type="checkbox"/> False |
| c. The expression can be simplified to $10x^2 + 9$ . | <input type="checkbox"/> True | <input type="checkbox"/> False |
| d. The constant term is 9.                           | <input type="checkbox"/> True | <input type="checkbox"/> False |

- 5** Which statement shows equivalent expressions?

- A**  $5(x - 2) = 5x - 3$
- B**  $3(x + 6) + x = 4x + 9$
- C**  $8(2x + 3) = 16x + 24$
- D**  $4(5x + 2) - 6 = 20x + 14$



**Unit 3 Mid-Unit Assessment** *continued***Form A**

- 6** Kari and Julie are practicing for basketball tryouts. Kari makes 3 less than twice as many baskets as Julie.

**Part A**

Write an expression with two terms for the number of baskets that Kari makes.  
Explain how you found your expression.

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**Part B**

Write an expression with three terms for the number of baskets that Kari and Julie make in all. Explain how you found your expression.

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**Part C**

If Julie makes 18 baskets, how many baskets does Kari make? How many baskets do they make in all?

**Show your work.**

Kari makes \_\_\_\_\_ baskets.

Kari and Julie make \_\_\_\_\_ baskets in all.



Name \_\_\_\_\_

Date \_\_\_\_\_

**Unit 3 Mid-Unit Assessment** *continued*

**Form A**

**7** Divit is 4 years younger than twice his brother's age. Which expression could be used to find Divit's age?

**A**  $4x - 2$

**B**  $2x - 4$

**C**  $4 - 2x$

**D**  $2 - 4x$

**8** Evaluate:  $53 - 3^2 \cdot 2$

