***Ready*® Mathematics**

Unit 3 Mid-Unit Assessment   Form B

Solve the problems.

1 A store starts the day with 45 packages of cheese slices. Each package contains the same number of cheese slices. By the end of the day, there are only 7 packages of cheese slices left.

Part A

Write an expression with two terms to represent the number of cheese slices the store sold.

Part B

Simplify your expression to create an equivalent expression.

2 Which expressions equal 48? Choose all that apply.

A 2^4

B $\dfrac{3\,(2^5)}{2}$

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

D $2^3 \cdot 5 + (4 \cdot 2)$

E $\dfrac{(8 + 3)^2 + 23}{3}$

3 Mr. Bellman orders a cube of clay for his art classes. The height of the cube is 20 inches. Write and simplify an exponential expression to find how much clay Mr. Bellman ordered.

Show your work.

Mr. Bellman ordered _____ cubic inches of clay.

4 Consider the expression $5x^2 + 4 + 2x$. Tell whether each statement is *True* or *False*.

a.   The expression has two terms.   ☐ True   ☐ False

b.   The constant term is 4.   ☐ True   ☐ False

c.   The coefficient of *x* is 2.   ☐ True   ☐ False

d.   The expression can be simplified to $5x^2 + 6x$.   ☐ True   ☐ False

5 Which statement shows equivalent expressions?

A $2(x + 3) + x = 3x + 5$

B $3(3x + 4) = 9x + 12$

C $8(x - 3) = 8x - 5$

D $5(7x + 2) - 4 = 35x - 14$

6 Lauren and Kristi are practicing for a track meet. Lauren runs 4 more than twice as many laps as Kristi.

Part A

Write an expression with two terms for the number of laps that Lauren runs. Explain how you found your expression.

_____

_____

_____

Part B

Write an expression with three terms for the number of laps that Lauren and Kristi run in all. Explain how you found your expression.

_____

_____

_____

Part C

If Kristi runs 12 laps, how many laps does Lauren run? How many laps do they run in all?

Show your work.

Lauren runs _____ laps.

Lauren and Kristi run _____ laps in all.

7 Deepak is 7 years younger than three times his brother's age. Which expression could be used to find Deepak's age?

A $3x - 7$

B $7x - 3$

C $3 - 7x$

D $7 - 3x$

8 Evaluate: $82 - 2^3 \cdot 5$