Unit **4**

Unit Assessment, Form B

Name _____

Read each question carefully.

1. Donavan saves 56 quarters, which is 7 times as many quarters as Elsa saves. Elsa saves 8 quarters. Which equation represents this comparison?

A. $56 + 7 = 8$ **B.** $56 \times 7 = 8$

C. $56 = 7 \times 8$ **D.** $56 = 7 + 8$

2. Which of these comparison statements represents the equation $9 \times 6 = 54$?

A. 6 is 9 times as many as 54.

B. 9 is 6 times as many as 54.

C. 54 is 9 times as many as 6.

D. 6 is 54 times as many as 9.

3. A string of red beads is 50 inches long. A string of purple beads is 10 inches long. How many times longer is the string of red beads than the string of purple beads? Draw a bar diagram and write an equation to solve.

4. Forty-eight new players joined the football team last year. That is 6 times as many as the number of new players that joined the football team this year.

a. Which equation can be used to determine how many new players join the football team this year?

A. $48 \times 6 = n$

B. $n \times 6 = 48$

C. $n + 6 = 48$

D. $48 + 6 = n$

b. How many new players join the football team this year?

A. 54 players

B. 42 players

C. 9 players

D. 8 players

5. Cameron has 24 books. She has 3 times as many books as games. How many games does she have?

A. 72 games

B. 27 games

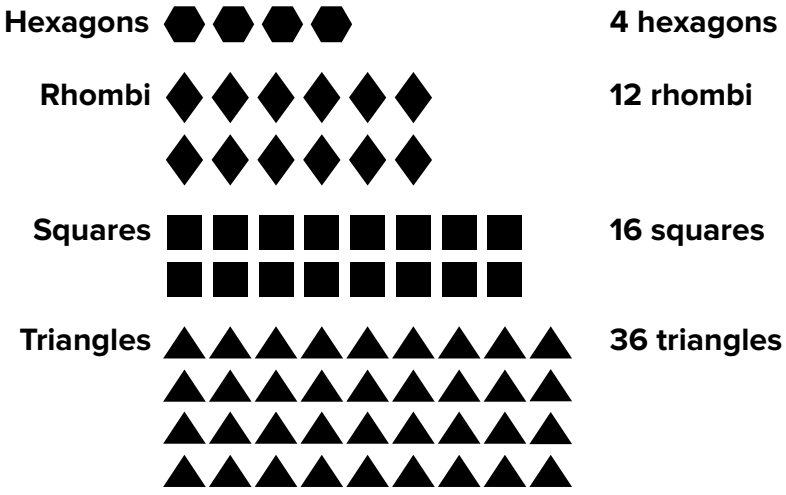
C. 21 games

D. 8 games

6. Match each situation with the expression that could represent it.

Ella stacks 8 bricks. Jack stacks 9 more bricks than Ella. How many bricks does Jack stack?	3×6
	$6 + 3$
Owen has 2 times as many balloons as Nicole. Nicole has 9 balloons. How many balloons does Owen have?	$8 + 9$
	2×9
Lyn packs 6 picnic baskets. San packs 3 times as many picnic baskets as Lyn. How many picnic baskets does San pack?	9×5
	$2 + 9$
Malia writes 9 thank-you notes. Jim writes 5 more thank-you notes than Malia. How many thank-you notes does Jim write?	8×9
	$9 + 5$

7. Dylan makes a design with the tiles shown.



Which statements are true about Dylan's tiles? Choose all that apply.

A. The number of rhombi is 3 times the number of hexagons.

B. There are 4 times as many hexagons as squares.

C. There are 4 more squares than rhombi.

D. The number of triangles is 3 times the number of rhombi.

8. Isaac and Blair pick blackberries. Isaac fills 4 baskets with blackberries. Blair fills 3 times as many baskets as Isaac.

a. Which equation can be used to find out how many baskets Blair fills?

A. $3 + b = 4$ **B.** $3 \times 4 = b$

C. $3 \times b = 4$ **D.** $3 + 4 = b$

b. How many baskets does Blair fill?

_____ baskets

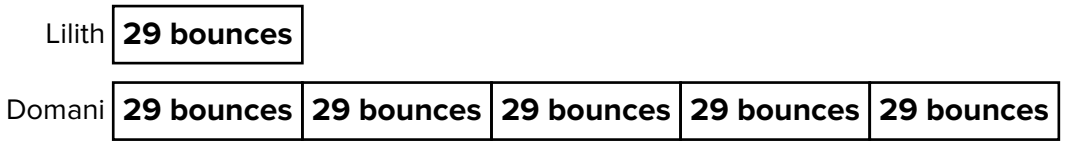
Name _____

9. Which situations can be represented by the equation $9 \times 5 = \square$?

Choose Yes or No for each situation.

	Yes	No
Jaedah has 9 stuffed animals. Her brother has 5 more stuffed animals than her. How many stuffed animals does her brother have?		
Abdel does 9 times as many jumping jacks as Ghania. Ghania does 5 jumping jacks. How many jumping jacks does Abdel do?		
Andra picks 5 apples, Hodari picks 9 times as many apples as Andra. How many apples does Hodari pick?		
Gracie finds 9 times as many shells as Logan. Logan finds 5 shells. How many shells does Gracie find?		
Madyson's dog weighs 5 pounds. Billy's dog weighs 9 more pounds than Madyson's dog. How many pounds does Billy's dog weigh?		

10. Which situation could be represented by the bar diagram?



A. Lilith and Domani are bouncing a ball. Domani bounces the ball 5 more times than Lilith.

B. Lilith and Domani are bouncing a ball. Lilith bounces the ball 5 more times than Domani.

C. Lilith and Domani are bouncing a ball. Domani bounces the ball 5 times as many times as Lilith.

D. Lilith and Domani are bouncing a ball. Lilith bounces the ball 5 times as many times as Domani.

11. The area of Brexton's basement floor is 4 times as large as the area of his bedroom floor. His bedroom floor is 5 meters long and 4 meters wide.

a. What is the **area**, in square meters, of Brexton's basement floor? Show your work.
Remember: Area is the number of square units needed to cover the inside of a region or plane figure.

b. The length of Brexton's basement is 5 times as long as the width. If the width of the basement is 4 meters, what is the **perimeter**, in meters, of the basement? Show your work.
Remember: Perimeter is the distance around a shape or region.

c. Brexton wants to lay some brown and yellow square tiles to cover the floor. Each tile is one square meter. The number of brown tiles is 3 times the number of yellow tiles. He uses 60 brown tiles. How many yellow tiles will he need? Explain your answer and show your work.