

Chapter 7 Practice Test

For #1 to #6, circle the best answer.

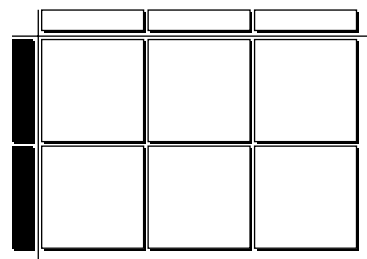
1. Which monomial multiplication statement does the model show?

A $(3x)(-2x) = -6x^2$

B $(2x)(-3x) = -6x^2$

C $(2x)(3x) = 6x^2$

D $(-2x)(-3x) = 6x^2$



2. What is the product of $3y$ and $2.7y$? Multiply

A $0.9y$

B $8.1y$

C $0.9y^2$

D $8.1y^2$

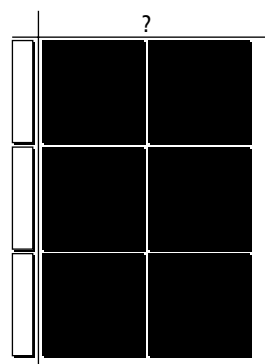
3. Which monomial statement does the model show?

A $\frac{-6x^2}{-3x} = -2x$

B $\frac{-6x^2}{-3x} = 2x$

C $\frac{6x^2}{-3x} = -2x$

D $\frac{6x^2}{-3x} = 2x$



4. What is the quotient of $\frac{-27q^2}{9q}$?

A $3q^2$

B $3q$

C $-3q$

D $-3q^2$

5. What is the product of $(3x)(-3x - 6)$?

A $-9x^2 + 18x$

B $-9x^2 - 18x$

C $9x^2 + 18x$

D $9x^2 - 18x$

6. Calculate $\frac{15y^2 - 10y}{-5y}$.

A $-3y - 2$

B $-3y + 2$

C $3y - 2$

D $3y + 2$

Name: _____ Date: _____

Short Answer

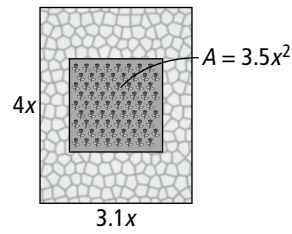
For #7 to #10, show your work.

7. Calculate $(1.3x)(4y)$.

8. Find the product of $(12h)(-3h + 2)$.

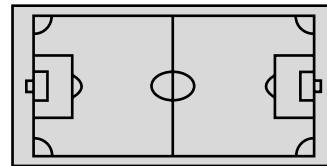
9. Simplify $\frac{-3x^2 + 3x}{-3x}$.

- 10.** Paula is building a rectangular patio.
It will have a square flower bed in the middle.



- a)** The length of the patio is $4x$.
The width is $3.1x$.
Write an expression for the area.
- b)** The area of the flower bed is $3.5x^2$.
The rest of the patio will be paving stones.
What area of the patio needs paving stones?

- 11.** A sports field is 15 m longer than twice the width.



- a)** Let w represent the width of the field.
Write an expression for the length.
- b)** Write an expression for the area of the field. Use the distributive property to simplify the expression.
