

Name : \_\_\_\_\_

Score : \_\_\_\_\_ Date : \_\_\_\_\_

## Multiplying and Dividing Monomials

Simplify.

1  $(2x^4)(3x^5)$

2  $(-4x^3)(3x^8)$

3  $(3x^8)(12x^3)$

4  $(6x^2)(15x^5)$

5  $(x^5)(2x^4)$

6  $(10x^8)(3x^3)$

7  $\frac{63x^9}{7x^7}$

8  $\frac{54x^3}{3x}$

9  $\frac{26x^{10}}{2x^5}$

10  $\frac{10x^8}{4x^3}$

11  $\frac{20x^4}{30x^3}$

12  $\frac{18x^7}{3x^5}$

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# Multiplying and Dividing Monomials

## Answers

$$1 \quad (2x^4)(3x^5)$$

$$= 6x^9$$

$$3 \quad (3x^8)(12x^3)$$

$$= 36x^{11}$$

$$5 \quad (x^5)(2x^4)$$

$$= 2x^9$$

$$7 \quad \frac{63x^9}{7x^7}$$

$$= 9x^2$$

$$9 \quad \frac{26x^{10}}{2x^5}$$

$$= 13x^5$$

$$11 \quad \frac{20x^4}{30x^3}$$

$$= \frac{2x}{3}$$

$$2 \quad (-4x^3)(3x^8)$$

$$= -12x^{11}$$

$$4 \quad (6x^2)(15x^5)$$

$$= 90x^7$$

$$6 \quad (10x^8)(3x^3)$$

$$= 30x^{11}$$

$$8 \quad \frac{54x^3}{3x}$$

$$= 18x^2$$

$$10 \quad \frac{10x^8}{4x^3}$$

$$= \frac{5x^5}{2}$$

$$12 \quad \frac{18x^7}{3x^5}$$

$$= 6x^2$$