

Multiplication of Monomials

1 Find the product.

$$x \cdot x = \underline{\hspace{2cm}}$$

2 Find the product.

$$3x^2 \cdot 2x^3 = \underline{\hspace{2cm}}$$

3 Calculate the value of

$$3a^2 \cdot a^3$$

Which of the following is the correct result?

A. $4a^5$

B. $4a^6$

C. $3a^5$

D. $3a^6$

4 Find the product.

$$2x^2 \cdot 3xy = \underline{\hspace{2cm}}$$

5 Find the product.

$$x^3y^2 \cdot (-2xy^3) = \underline{\hspace{2cm}}$$

6 Find the product.

$$6a^2b \cdot (-2ab) = \underline{\hspace{2cm}}$$

7 Find the product.

$$(-2.4x^2y^3)(-0.5x^4) = \underline{\hspace{2cm}}$$

8 Calculate the value of

$$-a^2b^2 \cdot (-2ab^3c)$$

Which of the following is the correct result?

A. $2a^3b^5c$

B. $2a^3b^5$

C. $-2a^3b^5c$

D. $-2a^3b^5$

9 Find the product.

$$-4a^3b^2c \cdot 3ab^3 = \underline{\hspace{2cm}}$$

10 Find the product.

$$\frac{2}{5}x^2y^3 \cdot \frac{5}{16}xyz \cdot (-2x^2y) = \underline{\hspace{2cm}}$$

Multiplication of Monomials

1 Find the product.

$$x \cdot x = \underline{\hspace{2cm}}$$

Answer x^2

Solution $x \cdot x = x^2$

2 Find the product.

$$3x^2 \cdot 2x^3 = \underline{\hspace{2cm}}$$

Answer $6x^5$

Solution $3x^2 \cdot 2x^3 = 6x^5$

3 Calculate the value of

$$3a^2 \cdot a^3$$

Which of the following is the correct result?

A. $4a^5$

B. $4a^6$

C. $3a^5$

D. $3a^6$

Answer C

Solution $3a^2 \cdot a^3 = 3a^5$

The answer is C.

4 Find the product.

$$2x^2 \cdot 3xy = \underline{\hspace{2cm}}$$

Answer $6x^3y$

Solution $2x^2 \cdot 3xy = 6x^3y$

5 Find the product.

$$x^3y^2 \cdot (-2xy^3) = \underline{\hspace{2cm}}$$

Answer $-2x^4y^5$

Solution $x^3y^2 \cdot (-2xy^3) = [1 \times (-2)] (x^3 \cdot x) (y^2 \cdot y^3) = -2x^4y^5$

6 Find the product.

$$6a^2b \cdot (-2ab) = \underline{\hspace{2cm}}$$

Answer $-12a^3b^3$

Solution $6a^2b \cdot (-2ab) = -12a^3b^3$

7 Find the product.

$$(-2.4x^2y^3)(-0.5x^4) = \underline{\hspace{2cm}}$$

Answer $1.2x^6y^3$

Alternative: $\frac{6}{5}x^6y^3$

Solution $(-2.4x^2y^3)(-0.5x^4) = 1.2x^6y^3$

8 Calculate the value of

$$-a^2b^2 \cdot (-2ab^3c)$$

Which of the following is the correct result?

A. $2a^3b^5c$

B. $2a^3b^5$

C. $-2a^3b^5c$

D. $-2a^3b^5$

Answer A

Solution $-a^2b^2 \cdot (-2ab^3c) = 2a^3b^5c$

The answer is A.

9 Find the product.

$$-4a^3b^2c \cdot 3ab^3 = \underline{\hspace{2cm}}$$

Answer $-12a^4b^5c$

Solution $-4a^3b^2c \cdot 3ab^3 = -12a^4b^5c$

10 Find the product.

$$\frac{2}{5}x^2y^3 \cdot \frac{5}{16}xyz \cdot (-2x^2y) = \underline{\hspace{2cm}}$$

Answer $-\frac{1}{4}x^5y^5z$

Alternative: $-0.25x^5y^5z$

Solution $\frac{2}{5}x^2y^3 \cdot \frac{5}{16}xyz \cdot (-2x^2y) = -\frac{1}{4}x^5y^5z$