

Name _____ Date _____

APPLY SKILLS 3

Simplify each problem, find the letter corresponding to the answer in the list below, then write that letter above the problem number at the bottom of the page.

Example:

$$\frac{(2x^2)(3xy)}{6x^3y} = S$$

1. $(2x^5y^4) \div (2xy^3)$

2. $(2xy)(2x^3y^4)$

3. $(2x^5)(3x^2y^2)$

4. $(3x^4)(2x)$

5. $(6x^2y^3) \div (2xy^3)$

6. $(5x^2y^4z) \div (5xy^4z)$

7. $(3xy)^2$

8. $(8x^3y^5) \div (4xy^4)$

A = x^4y

N = x

B = x^4

R = $2x^5y^9$

F = $3x$

S = $6x^3y$

H = $9x^2y^2$

T = $6x^5y$

I = $6x^7y^2$

U = $4x^4y^5$

M = $2x^2y$

 8 1 4 7 3 S 5 2 6
 ex.

APPLY SKILLS 4

Simplify the monomial problems.

Example:

$$(2xy)(5xy^2) = \underline{10x^2y^3}$$

Example:

$$(10x^2y^3) \div (2xy) = \underline{5xy^2}$$

1. $(2a)(a) = \underline{\hspace{2cm}}$

2. $(2a)(3a^3) = \underline{\hspace{2cm}}$

3. $(6a^2) \div (3a) = \underline{\hspace{2cm}}$

4. $(7b^3)(2b) = \underline{\hspace{2cm}}$

5. $(6ab)(ab) = \underline{\hspace{2cm}}$

6. $\frac{4ab}{2a} = \underline{\hspace{2cm}}$

7. $(ab)(3a) = \underline{\hspace{2cm}}$

8. $\frac{6a}{a} = \underline{\hspace{2cm}}$

9. $(2)^2 = \underline{\hspace{2cm}}$

10. $(3a)^2 = \underline{\hspace{2cm}}$

11. $(4a)(2ab) = \underline{\hspace{2cm}}$

12. $(2a) \div (2b) = \underline{\hspace{2cm}}$

13. $(3xy)(2x^2y) = \underline{\hspace{2cm}}$

14. $\frac{8x^2y}{4xy} = \underline{\hspace{2cm}}$

15. $(8x^2y) \div (8xy) = \underline{\hspace{2cm}}$

16. $(2^2x^2y)(5xy^3) = \underline{\hspace{2cm}}$

17. $\frac{3xyz}{4xy} = \underline{\hspace{2cm}}$

18. $\frac{(-2xy)^2}{2x} = \underline{\hspace{2cm}}$

19. $(2x^2)^2 \div (-3x)^3 = \underline{\hspace{2cm}}$

20. $(3xy)(x^2)(2x) = \underline{\hspace{2cm}}$

PROGRESS TIONITORING

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APPLY SKILLS 3

Simplify each problem, find the letter corresponding to the answer in the list below, then write that letter above the problem number at the bottom of the page.

Example:

$$\frac{(2x^2)(3xy)}{6x^3y} = S$$

$$\frac{2x^5y^4}{2xy^3}$$

1. $(2x^5y^4) \div (2xy^3)$

$$x^4y$$

2. $(2xy)(2x^3y^4)$

$$4x^4y^5$$

3. $(2x^5)(3x^2y^2)$

$$6x^7y^2$$

4. $(3x^4)(2x)$

$$6x^5y$$

5. $(6x^2y^3) \div (2xy^3)$

$$3x$$

$$\frac{6x^2y^3}{2xy^3}$$

6. $(5x^2y^4z) \div (5xy^4z)$

$$x$$

7. $(3xy)^2$

$$9x^2y^2$$

8. $(8x^3y^5) \div (4xy^4)$

$$2x^2y$$

A = x^4y

N = x

B = x^4

R = $2x^5y^9$

F = $3x$

S = $6x^3y$

H = $9x^2y^2$

T = $6x^5y$

I = $6x^7y^2$

U = $4x^4y^5$

M = $2x^2y$

$\frac{M}{8}$ $\frac{A}{1}$ $\frac{T}{4}$ $\frac{H}{7}$ $\frac{I}{3}$ $\frac{S}{ex.}$ $\frac{F}{5}$ $\frac{U}{2}$ $\frac{N}{6}$

Name

Key

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APPLY SKILLS 4

Simplify the monomial problems.

Example:

$$(2xy)(5xy^2) = \underline{10x^2y^3}$$

Example:

$$(10x^2y^3) \div (2xy) = \underline{5xy^2}$$

1. $(2a)(a) = \underline{2a^2}$

2. $(2a)(3a^3) = \underline{6a^4}$

3. $(6a^2) \div (3a) = \underline{2a}$

4. $(7b^3)(2b) = \underline{14b^4}$

5. $(6ab)(ab) = \underline{6a^2b^2}$

6. $\frac{4ab}{2a} = \underline{2b}$

7. $(ab)(3a) = \underline{3a^2b}$

8. $\frac{6a}{a} = \underline{6}$

9. $(2)^2 = \underline{4}$

10. $(3a^2)^2 = \underline{3^2 \cdot a^{2 \cdot 2} = 9a^4}$

11. $(4a)(2ab) = \underline{8a^2b}$

12. $(2a) \div (2b) = \underline{\frac{a}{b}}$

13. $(3xy)(2x^2y) = \underline{6x^3y^2}$

14. $\frac{8x^2y}{4xy} = \underline{2x}$

15. $(8x^2y) \div (8xy) = \underline{x}$

16. $(2^2x^3y)(5xy^3) = \underline{20x^3y^4}$

17. $\frac{3xz}{4x} = \underline{\frac{3z}{4}}$

18. $\frac{(-2xy)^2}{2x} = \underline{\frac{4x^2y^2}{2x} = 2xy^2}$

19. $(2x^2)^2 \div (-3x)^3 = \underline{-\frac{4x}{27}}$

20. $(3xy)(x^2)(2x) = \underline{6x^4y}$