Name:

Date:

Multiplying Monomials

Simplify each expression.

1) $2xy \times (-4z) =$

2) $4(8p \times p^2) =$

3) $6xy \times (-3z) =$

4) $4(5a \times 7) =$

5) $10x^2y^3 \times 3y =$

6) $(-6b^2 \times a)(4b) =$

7) $x(3x) =$

8) $(6m^2 \times n)(n^2 \times 3m) =$

9) $(3u)(uv^5) =$

10) $(3x^4 \times 2x^4) \times y^2 =$

11) $3m^2n^3mn^2 =$

12) $-9x^7(8x^5) =$

13) $7x^2 \times 6x^3 =$

14) $(5x^2y)x^2yz =$

15) $-3x^4 \times 6x^9 =$

16) $4xy^3 \times (-5yx) =$

17) $4x^2y^2z^3 \times 3x^2y^4 =$

18) $12y^3z^4 \times (-y^6z) =$

19) $y^2z^2 \times x^2y^5 =$

20) $5ab^4 \times 3ba^4 =$

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Name:

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Multiplying Monomials

Answers

Simplify each expression.

1) $2xy \times (-4z) = -8xyz$

2) $4(8p \times p^2) = 32p^3$

3) $6xy \times (-3z) = -18xyz$

4) $4(5a \times 7) = 140a$

5) $10x^2y^3 \times 3y = 30x^2y^4$

6) $(-6b^2 \times a)(4b) = -24ab^3$

7) $x(3x) = 3x^2$

8) $(6m^2 \times n)(n^2 \times 3m) = 18m^3n^3$

9) $(3u)(uv^5) = 3v^5u^2$

10) $(3x^4 \times 2x^4) \times y^2 = 6x^8y^2$

11) $3m^2n^3mn^2 = 3m^3n^5$

12) $-9x^7(8x^5) = -72x^{12}$

13) $7x^2 \times 6x^3 = 42x^5$

14) $(5x^2y)x^2yz = 5x^4y^2z$

15) $-3x^4 \times 6x^9 = -18x^{13}$

16) $4xy^3 \times (-5yx) = -20x^2y^4$

17) $4x^2y^2z^3 \times 3x^2y^4 = 12x^4y^6z^3$

18) $12y^3z^4 \times (-y^6z) = -12y^9z^5$

19) $y^2z^2 \times x^2y^5 = x^2y^7z^2$

20) $5ab^4 \times 3ba^4 = 15a^5b^5$

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