Name:

Date:

Multiplication Property of Exponents

Simplify.

1) $2m^2 \times 2m^3 =$

2) $m^4 \times 2m^{-3} =$

3) $5^2 \times 5^5 =$

4) $4r^{-3} \times 2r^2 =$

5) $4n^4 \times 2n^{-3} =$

6) $x^2 \times x \times x^{-4} =$

7) $2k^4 \times 4k =$

8) $4v^3 \times vu^2 =$

9) $(5^6)^0 =$

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

11) $4(xy)^{-1} =$

12) $(-5x)^2 =$

13) $(3k^4)^4 =$

14) $(4a^3)^2 =$

15) $(a^{-2} \times b^0)^3 =$

16) $(4r^0)^4 =$

17) $(x^2)^0 =$

18) $(2^3)^2 =$

19) $(2x^2)^{-4} =$

20) $x^2 \times x^6 =$

21) $-(2)^2 =$

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Name:

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Multiplication Property of Exponents

Answers

Simplify.

1) $2m^2 \times 2m^3 = 4m^5$

2) $m^4 \times 2m^{-3} = 2m$

3) $5^2 \times 5^5 = 5^7$

4) $4r^{-3} \times 2r^2 = \frac{8}{r}$

5) $4n^4 \times 2n^{-3} = 8n$

6) $x^2 \times x \times x^{-4} = \frac{1}{x}$

7) $2k^4 \times 4k = 8k^5$

8) $4v^3 \times vu^2 = 4v^4u^2$

9) $(5^6)^0 = 1$

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

11) $4(xy)^{-1} = \frac{1}{4xy}$

12) $(-5x)^2 = 25x^2$

13) $(3k^4)^4 = 81k^{16}$

14) $(4a^3)^2 = 16a^6$

15) $(a^{-2} \times b^0)^3 = a^{-6}$

16) $(4r^0)^4 = 256$

17) $(x^2)^0 = 1$

18) $(2^3)^2 = 2^6$

19) $(2x^2)^{-4} = \frac{1}{16x^8}$

20) $x^2 \times x^6 = x^8$

21) $-(2)^2 = -4$

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