Name:

Date:

Powers of Products and Quotients

Simplify.

1) $(3a^2)^3 =$

2) $(2n^4)^4 =$

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

4) $(3x^4)^4 =$

5) $(6b^2)^2 =$

6) $(11x^5)^2 =$

7) $(7y^4)^2 =$

8) $(3ab^4)^4 =$

9) $(2^6)^2 =$

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

11) $(5m)^3 =$

12) $(2m)^3 =$

13) $(x^2y^2)^2 =$

14) $(6x^4)^2 =$

15) $(6x^{10})^2 =$

16) $(u^4v^3)^2 =$

17) $(2x^4)^5 =$

18) $(2x^5)^3 =$

19) $(3x^2 2x^2)^2 =$

20) $(2p^3 2p)^2 =$

21) $(2n^3)^{-2} =$

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QUIZ ?

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Name:

Date:

Powers of Products and Quotients

Answers

Simplify.

1) $(3a^2)^3 = 27a^6$

2) $(2n^4)^4 = 16n^{16}$

3) $(3^3 \times 3^2)^3 = 3^{15}$

4) $(3x^4)^4 = 81x^{16}$

5) $(6b^2)^2 = 36b^4$

6) $(11x^5)^2 = 121x^{10}$

7) $(7y^4)^2 = 49y^8$

8) $(3ab^4)^4 = 81a^4b^{16}$

9) $(2^6)^2 = 2^{12}$

10) $(2x^4y^4)^3 = 8x^{12}y^{12}$

11) $(5m)^3 = 125m^3$

12) $(2m)^3 = 8m^3$

13) $(x^2y^2)^2 = x^4y^4$

14) $(6x^4)^2 = 36x^8$

15) $(6x^{10})^2 = 36x^{20}$

16) $(u^4v^3)^2 = u^8v^6$

17) $(2x^4)^5 = 32x^{20}$

18) $(2x^5)^3 = 8x^{15}$

19) $(3x^2 2x^2)^2 = 36x^8$

20) $(2p^3 2p)^2 = 16p^8$

21) $(2n^3)^{-2} = \frac{1}{4}n^{-6}$

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