

## Exponent Practice

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**Simplify. Your answer should contain only positive exponents.**

1)  $2xy^3 \cdot 2x^4$

2)  $2uv \cdot 2u^4v^3$

3)  $mn^4 \cdot 2n^3$

4)  $2n \cdot m^2n^3$

5)  $4yx^4 \cdot x^3y^4 \cdot 4x^3y^4$

6)  $x^4y^2 \cdot 2y$

7)  $(3b^2)^3$

8)  $(4u^4v^4)^3$

9)  $(3ba^3)^4$

10)  $(4xy^2)^4$

11)  $(3y^4)^3$

12)  $(2yx^4)^3$

13)  $\frac{4x^3y^4}{2y}$

14)  $\frac{m^2n^4}{m^3}$

15)  $\frac{3mn}{2n}$

16)  $\frac{3y^3}{3yx^2}$

$$17) \frac{4x^3y^2}{3x^2y^3}$$

$$18) \frac{3xy^4}{x^3y^2}$$

$$19) \frac{u^{-1}v^3}{4u^4v^4}$$

$$20) \frac{4x^3y^{-1}}{3x}$$

$$21) \frac{4x^2y^{-3}}{2yx^{-3}}$$

$$22) \frac{4vu^{-3}}{u^{-4}v^3}$$

$$23) \frac{2x^3}{4x^2y^{-2}}$$

$$24) \frac{xy^3}{x^4y^2}$$

$$25) \frac{4^{-1}}{4^2}$$

$$26) \frac{4}{4^2}$$

$$27) \left(\frac{2}{3}\right)^2$$

$$28) \left(\frac{2}{3}\right)^{-2}$$

$$29) \left(\frac{4}{3}\right)^3$$

$$30) \left(\frac{4}{3}\right)^{-3}$$

## Exponent Practice

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**Simplify. Your answer should contain only positive exponents.**

$$1) 2xy^3 \cdot 2x^4$$

$$4x^5y^3$$

$$2) 2uv \cdot 2u^4v^3$$

$$4u^5v^4$$

$$3) mn^4 \cdot 2n^3$$

$$2mn^7$$

$$4) 2n \cdot m^2n^3$$

$$2n^4m^2$$

$$5) 4yx^4 \cdot x^3y^4 \cdot 4x^3y^4$$

$$16y^9x^{10}$$

$$6) x^4y^2 \cdot 2y$$

$$2x^4y^3$$

$$7) (3b^2)^3$$

$$27b^6$$

$$8) (4u^4v^4)^3$$

$$64u^{12}v^{12}$$

$$9) (3ba^3)^4$$

$$81b^4a^{12}$$

$$10) (4xy^2)^4$$

$$256x^4y^8$$

$$11) (3y^4)^3$$

$$27y^{12}$$

$$12) (2yx^4)^3$$

$$8y^3x^{12}$$

$$13) \frac{4x^3y^4}{2y}$$

$$2x^3y^3$$

$$14) \frac{m^2n^4}{m^3} \frac{n^4}{m}$$

$$15) \frac{3mn}{2n}$$

$$\frac{3m}{2}$$

$$16) \frac{3y^3}{3yx^2} \frac{y^2}{x^2}$$

$$17) \frac{4x^3y^2}{3x^2y^3}$$

$$\frac{4x}{3y}$$

$$18) \frac{3xy^4}{x^3y^2} \frac{3y^2}{x^2}$$

$$19) \frac{u^{-1}v^3}{4u^4v^4}$$

$$\frac{1}{4u^5v}$$

$$20) \frac{4x^3y^{-1}}{3x} \frac{4x^2}{3y}$$

$$21) \frac{4x^2y^{-3}}{2yx^{-3}}$$

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

$$22) \frac{4vu^{-3}}{u^{-4}v^3} \frac{4u}{v^2}$$

$$23) \frac{2x^3}{4x^2y^{-2}}$$

$$\frac{y^2x}{2}$$

$$24) \frac{xy^3}{x^4y^2} \frac{y}{x^3}$$

$$25) \frac{4^{-1}}{4^2}$$

$$\frac{1}{4^3}$$

$$26) \frac{4}{4^2} \frac{1}{4}$$

$$27) \left(\frac{2}{3}\right)^2$$

$$28) \left(\frac{2}{3}\right)^{-2}$$

The dot next to the choice indicates that it is the answer. The dot next to the choice indicates that it is the answer.

$$29) \left(\frac{4}{3}\right)^3$$

$$30) \left(\frac{4}{3}\right)^{-3}$$

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