

## PRACTICE Quiz 4.3 - 4.4 More multiplication &amp; Division of exponents

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

1)  $(3mn^2)^{-1}$

2)  $(3q)^2$

3)  $\frac{3r^{-3}}{r}$

4)  $\frac{3p^{-3}}{4pm^{-1}n^3}$

5)  $\frac{(2v^2)^3}{v^2 \cdot 2v^{-3}}$

6)  $\frac{(m^{-4}p^4q^2)^3}{m^{-1}p^3q^3 \cdot 2m^0}$

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

8)  $\frac{pm^3n^0}{(2mn^{-2}p^{-1})^{-3}}$

## PRACTICE Quiz 4.3 - 4.4 More multiplication &amp; Division of exponents

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

1)  $(3mn^2)^{-1}$

$$\frac{1}{3mn^2}$$

2)  $(3q)^2$

$$9q^2$$

3)  $\frac{3r^{-3}}{r}$

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

4)  $\frac{3p^{-3}}{4pm^{-1}n^3}$

$$\frac{3m}{4p^4n^3}$$

5)  $\frac{(2v^2)^3}{v^2 \cdot 2v^{-3}}$

$$4v^7$$

6)  $\frac{(m^{-4}p^4q^2)^3}{m^{-1}p^3q^3 \cdot 2m^0}$

$$\frac{p^9q^3}{2m^{11}}$$

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

$$\frac{y^8x^5}{2}$$

8)  $\frac{pm^3n^0}{(2mn^{-2}p^{-1})^{-3}}$

$$\frac{8m^6}{n^6p^2}$$