

Name:

Negative Exponents Worksheet

Simplify. Express your answer as positive exponents only

1 $2^3 \cdot 2^{-2}$

2 $\frac{2}{2^{-2}}$

3 $\frac{6}{6^{-4}}$

4 $5^{-3} \cdot 5^2$

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

6 $\left(\frac{3}{4}\right)^{-1}$

7 $\frac{2q^{-1}}{3q^{-3}}$

8 $\frac{4p^3}{4p^{-2}}$

9 $(s^{-2})^{-4} \cdot 2s^{-2}$

10 $\frac{2v^2}{v^{-2}}$

11 $(4p^{-3})^3 p^{-1}$

12 $\left(\frac{5p}{3qr}\right)^{-2}$

Name:

Negative Exponents Worksheet

Answers

1 $2^3 \cdot 2^{-2}$

2^1

3 $\frac{6}{6^{-4}}$

6^5

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

3^2

7 $\frac{2q^{-1}}{3q^{-3}}$

$\frac{2q^2}{3}$

9 $(s^{-2})^{-4} \cdot 2s^{-2}$

$2s^6$

11 $(4p^{-3})^3 p^{-1}$

$4p^{-10}$

2 $\frac{2}{2^{-2}}$

2^3

4 $5^{-3} \cdot 5^2$

$\frac{1}{5}$

6 $\left(\frac{3}{4}\right)^{-1}$

$\left(\frac{4}{3}\right)^1$

8 $\frac{4p^3}{4p^{-2}}$

p^5

10 $\frac{2v^2}{v^{-2}}$

$2v^4$

12 $\left(\frac{5p}{3qr}\right)^{-2}$

$\frac{9q^2r^2}{25p^2}$