## Math Virtual Learning

## Algebra 1 S-1

May 8 , 2020


Algebra 1 S2<br>Lesson: May 7, 2020

## Objective/Learning Target:

Students will find equivalent expressions using the quotient rule of exponents.

"Remember

## Let's Get Started

Watch Video 1:


You just subtract the exponents!

Your First Example
$\frac{x^{5}}{x^{3}}$
Remember just

$$
x^{5-3}
$$




Let's try a little harder example...


$$
\begin{aligned}
& \frac{6 g^{5} n^{8}}{4 g n} \\
& \frac{6}{4}\left(g^{5-1}\right)\left(n^{8-1}\right) \\
& \frac{3 g^{4} n^{5}}{3}
\end{aligned}
$$

It's the same thing, group coefficients and divide then subtract exponents!


This example will be the ultimate test of your expertise! Private no assistance please!

$$
\begin{aligned}
& \frac{14 x^{4} y^{7}}{2 x^{5} y^{4}} \\
& \frac{14}{2} x^{4-5} y^{7-4}
\end{aligned}
$$

$$
7 x^{-1} y^{3}
$$

$$
\frac{7 y^{3}}{x}
$$



Now it's your turn!
1). $\frac{3 r^{3}}{2 r}$
3). $\frac{12 y x^{4}}{10 y x^{8}}$
2).
4).
$\frac{10 p^{4}}{6 p}$

## Answer Key:

Once you have completed the problems, check your answers here.

$$
\text { 1). } \begin{aligned}
& \frac{3 r^{3}}{2 r} \\
& \frac{3 r^{2}}{2}
\end{aligned}
$$

2).
$3)$.
$\frac{12 y x^{4}}{10 y x^{8}}$
4). $\frac{6}{5 x^{4}}$

$$
\begin{aligned}
& \frac{10 p^{4}}{6 p} \\
& \frac{5 p^{3}}{3}
\end{aligned}
$$

$$
\frac{5 n^{8}}{20 n^{8}}
$$

$$
\frac{1}{4}
$$

## Additional Practice:

Click on the links below to get additional practice and to check your understanding!

## Finding equivalent expressions using the quotient rule of exponents.



