$$
\underset{2-9}{\text { Algebra I }}
$$

Dividing Real Numbers

How do we multiply fractions?

$$
\frac{2}{3} \cdot \frac{4}{5}=\frac{8}{15}
$$

Multiply the tops, Multiply the bottoms

There is no such thing as CROSS PRODUCTS.
How do we divide fractions?

$$
\begin{aligned}
& \frac{2}{3} \div \frac{4}{5}= \\
& \frac{2}{3}\left(\frac{5}{4}\right)=\frac{5}{6}
\end{aligned} \text { Multiply the reciprocal. }
$$

## Sample Questions

Simplify.

$$
\begin{aligned}
& \text { 1) } \left.\frac{8}{\frac{2}{3}}\right\rangle_{\text {Rewrite }} \\
& \text { 2) })^{-3}(-6) \cdot \frac{-5 x}{2_{1}}=15 x \\
& \text { 3) }(-88) \div\left(-\frac{1}{11}\right) \\
& -88-\frac{11}{1} \\
& 968 \\
& =12
\end{aligned}
$$

## $\rightarrow$ average

Find the mean of the given numbers.
4) $-5,-2,8,-7$

$$
-5+(-2)+8+(-7)
$$

$$
4 \rightleftarrows \text { Because there are four }
$$

$$
\frac{-7+1}{4}
$$

numbers in our collection.

$$
\frac{-6}{4}-\frac{1}{2}
$$

$$
\begin{gathered}
\text { pg } 85 \\
1-33 a 11
\end{gathered}
$$

