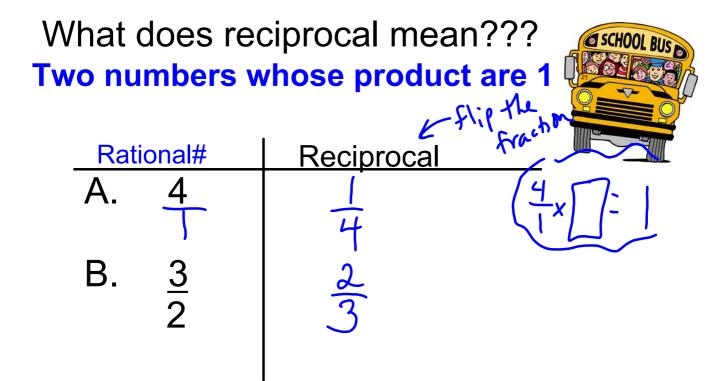
## **Section 3.5 Dividing Rational Numbers**

The Rules for Positive and Negatives still apply when dividing rational numbers

## What will the sign be?

$$\binom{8}{9} \div \left(\frac{-1}{3}\right)$$

b) 
$$\left(\frac{1}{-4}\right) \div \left(-2\frac{1}{3}\right)$$





What is the reciprocal of..

$$(3) - \frac{1}{2}$$
 $(3) - \frac{1}{4}$ 
 $(3) - \frac{1}{4}$ 
 $(3) - \frac{1}{4}$ 
 $(3) - \frac{1}{4}$ 

## Warm-Up...

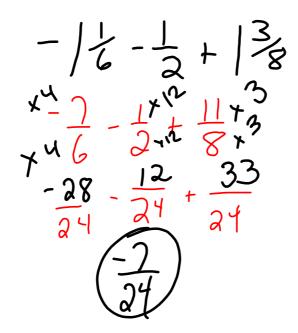
September 19, 2018

1. Jane borrows \$1043.00 from her parents. She pays back 74.50 a week.

A. Write a mathematical sentence to show how many weeks will it take to pay back her parents?

## **To Divide Fractions:**

- 1. Multiply by the reciprocal of the second fraction [ follows the fisign]
- 2. Multiply the numerators of the fractions
- 3. Multiply the denominators of the fractions
- 4. Express in simpliest form.



A. 
$$2\frac{3}{5} + \left(-\frac{1}{2}\right)$$

$$+ \frac{13}{10} + -\frac{1}{2} \times 5$$

$$+ \frac{26}{10} + \frac{5}{10} \times 5$$

$$+ \frac{26}{10} + \frac{5}{10} \times 5$$

B. 
$$1\frac{2}{3} - \frac{7}{6}$$
 $2\frac{5}{3} - \frac{7}{6}$ 
 $1\frac{2}{3} - \frac{7}{6}$ 
 $1\frac{2}{5} - \frac{7}{6}$ 

C. 
$$-1\frac{8}{9} \div 3\frac{5}{7}$$
 $-\frac{17}{9} \div 3\frac{5}{7}$ 
 $-\frac{17}{9} \times 3\frac{5}{7}$ 
 $-\frac{17}{9} \times 3\frac{5}{7}$ 
 $-\frac{17}{9} \times 3\frac{5}{7}$ 

D. 
$$-2\frac{1}{10} \times -\frac{1}{2}$$
$$-\frac{21}{10} \times -\frac{1}{2}$$
$$\frac{21}{20} \times \frac{1}{20}$$

You must copy the question then answer. Express all answers in lowest terms and as mixed numbers when necessary!!!!!!

Quotient: answer when divide.

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 $\textbf{product} \rightarrow$ the answer you get multiply

Page 134-136 4 [a-f], 12

1. Multiplying/Dividing Rational Number Practice

#1. a)  $\frac{35}{48}$  c)  $\frac{5}{16}$  e)  $\frac{2}{21}$  g)  $\frac{5}{9}$   $\frac{42}{9}$  a)  $6\frac{2}{3}$  c)  $\frac{5}{12}$  e)  $\frac{12}{4}$  g)  $\frac{3}{3}$  a)  $\frac{4}{12}$  a)  $\frac{3}{2}$  c)  $\frac{5}{12}$  e)  $\frac{12}{4}$  g)  $\frac{9}{21}$   $\frac{4}{9}$  40  $\frac{3}{2}$  a)  $\frac{12}{9}$  e)  $\frac{3}{8}$ 

a) 32/55

\*Read

\*Work on other homework or

\*Continue to practice math using worksheets.