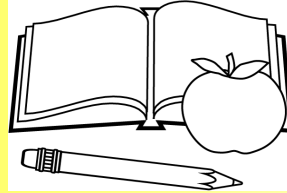


Warm-Up



September 21

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?

$$\frac{1043}{74.50} = 14 \text{ wks}$$

A. $\frac{2}{-5} + -3\frac{1}{6}$

$$\begin{array}{l} \times 6 \\ -2 \\ \hline 5 \end{array} + \begin{array}{l} -19 \times 5 \\ \hline 6 \times 5 \end{array}$$

$$\frac{-12}{30} + -\frac{95}{30}$$

$$\begin{array}{l} -107 \\ \hline 30 \\ -3\frac{17}{30} \end{array}$$

B. $\left(\frac{7}{-8}\right)\left(-2\frac{1}{4}\right)$

$$\left(\frac{-7}{8}\right)\left(-\frac{9}{4}\right)$$

$$\frac{63}{32} = \left(1\frac{31}{32}\right)$$

Section 3.5 Dividing Rational Numbers

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

(+)(-)

What will the sign be?



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

(+) ÷ (-)
negative

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

(-) ÷ (-)
(+) positive

What does reciprocal mean???

Two numbers whose product are 1

multiply



Rational#	Reciprocal [flip your fraction]
A. $\frac{4}{1}$	$\frac{1}{4}$
B. $\frac{3}{2}$	$\frac{2}{3}$
C) $\frac{2}{-4}$ $-\frac{2}{4}$	$-\frac{4}{2}$
D) $\frac{8}{1}$	$\frac{1}{8}$
E) $-2\frac{1}{3}$ $-\frac{7}{3}$	$-\frac{3}{7}$

$\frac{4}{1} \times \frac{1}{4} = \frac{4}{4}$

What is the reciprocal of..



a) $-\frac{2}{7}$
 $-\frac{7}{2}$

b) $\frac{9}{-8}$
 $-\frac{8}{9}$

c) $2\frac{4}{5}$
 $\frac{14}{5}$
 $\frac{5}{14}$

d) $-3\frac{2}{3}$
 $-\frac{11}{3}$
 $-\frac{3}{11}$



To Divide Fractions:

- Multiply by the reciprocal of the fraction following the division sign
- Multiply the numerators of the fractions
- Multiply the denominators of the fraction
- Express in simplest form.

$$\frac{5}{7} \div \frac{-3}{4}$$
$$\frac{5}{7} \times \frac{-4}{3} = \frac{-20}{21}$$

20/4 or 1 divided by 1/2

Evaluate. Express your number in lowest terms.

$$\frac{3}{5} \div \frac{1}{3}$$



$$2\frac{1}{4} \div 1\frac{2}{3}$$



$$\frac{9}{4} \div \frac{5}{3}$$
$$\frac{9}{4} \times \frac{3}{5}$$

$$\frac{27}{20} = 1\frac{7}{20}$$

$$-2\frac{2}{9} \div -1\frac{2}{3}$$

$$-\frac{20}{9} \div -\frac{5}{3}$$

$$-\frac{20}{9} \times \frac{3}{5}$$

$$\frac{60}{45} = \frac{15}{45} = \frac{1}{3}$$

Homework

$$\begin{pmatrix} 5 \\ 2 \end{pmatrix} \begin{pmatrix} -3 \\ 4 \end{pmatrix} = \frac{-15}{8}$$

$-\frac{15}{8}$



Page 127-128-----6, 7, 12, 14

Page 134-136

4[a,c,e], 12[a,c,e]

Answers
Page
483-84