Curriculum Outcome

N1: Demonstrate an understanding of rational numbers by: comparing and ordering rational numbers; solving problems that involve arithmetic operations on rational numbers.

Student Friendly:
"Multiplying fractions and decimals "

Sep 7-2:50 PM

Try these out!

☆ Don't forget to ALWAYS reduce if possible!

Use what you know about multiplying integers & fractions to evaluate the following expressions.

$\left(\frac{7}{-4}\right) \times \frac{9}{2}$ $-\frac{63}{8}$ $= -7\frac{7}{8}$	$9 \times (-3)$ $= -27$	$\frac{9}{2} \times \left(\frac{-3}{10}\right)$ $= \frac{-27}{20}$ $= -1\frac{7}{20}$
(-1.5) x (-1.8) $= 2.7$	0.2 x (-0.4) $= -0.08$	$\left(-\frac{8}{3}\right) \times \left(-\frac{6}{5}\right)$ $= \frac{48}{15} = \frac{16}{5}$ $= 3\frac{3}{15}$ $= 3\frac{1}{5}$

Nov 1-6:12 PM

Practice Questions
p. 127-129

Questions

3, 4, 5, 7

If you see decimals just use your calculator, don't bother predicting answers.

Nov 1-6:28 PM

Multiplying Rational Numbers in Fraction Form

We should always try to reduce before we start the questions so we keep our numbers small

Determine the product:

$$\left(-\frac{11}{7}\right)\left(-\frac{21}{44}\right)$$

Look for common factors in the numerators and denominators.
11 and 44 have a common factor 11.
7 and 21 have a common factor 7.
Divide numerator and denominator by their common factors.

First, we simplify:

$= \left(\quad\right)\left(\quad\right)$

Then start multiplying

So, our new expression, looks like this:

=

=

Nov 1-6:27 PM

Determine the product:

$$\left(-\frac{11}{7}\right)\left(\frac{21}{44}\right)$$

First, we simplify:

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

$$= \frac{3}{4}$$

Sep 21-8:59 AM

$$\left(\frac{-9}{5}\right)\left(\frac{45}{4}\right)$$

$$\left(\frac{-9}{1}\right)\left(\frac{9}{4}\right)$$

$$= \frac{-81}{4} = -20\frac{1}{4}$$

Sep 21-9:01 AM

$\left(\frac{-48}{15}\right)\left(\frac{35}{12}\right)$

$\left(\frac{-4}{3}\right)\left(\frac{7}{1}\right)$

$= \frac{-28}{3}$

$= -9\frac{1}{3}$

$\left(\frac{-48}{15}\right)\left(\frac{35}{12}\right)$

$\left(\frac{-16}{5}\right)^4 \left(\frac{35}{12}\right)^7$

$\left(\frac{-4}{1}\right)\left(\frac{7}{3}\right)$

$= \frac{-28}{3}$

$= -9\frac{1}{3}$

Sep 17-9:21 AM

$\left(\frac{ab}{cd}\right)\left(\frac{c^2d}{ab^2}\right)$

$\left(\frac{ab}{cd}\right)\left(\frac{cd}{abb}\right)$

$= \frac{c}{b}$

Sep 21-9:08 AM

Multiplying Rational Numbers in mixed number Form

Determine the product.

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

$\left(\frac{8}{3}\right)\left(\frac{-7}{4}\right)$

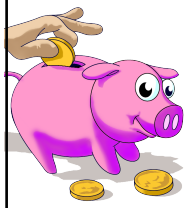
$\left(\frac{2}{3}\right)\left(\frac{-7}{1}\right)$

$= \frac{-14}{3}$

$= -4\frac{2}{3}$

Nov 1-6:31 PM

Multiplying Rational Numbers to Solve Problems



The price of a share in CIBC changed by -$1.57 on March 4th, 2008.
Linda owns 43 shares.
By how much did Linda's shares change on that day?

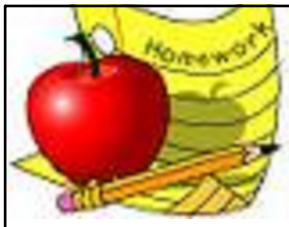
The change in value is represented by this expression:
-$1.57 x 43.

Use a calculator.

-$1.57 x 35 = - $67.51

The shares lost $67.51 that day.

Nov 1-6:31 PM



Practice Questions
p. 128-129

Questions

4, 5ab, 7, 9ab, 11, 12, 14,15, 16ab

Do not just write down answers show work. You don't have to rewrite word problems but for 11, 12 write out the questions (NOT JUST THE ANSWERS)

Nov 1-6:28 PM