

Evaluate the following expressions:

1) 
$$-\frac{14}{7.5} + \frac{1}{5}$$
 2)  $-12.45 + 6.24$   $-\frac{70}{35} + \frac{7}{35} = \frac{63}{35}$  4)  $\left(-\frac{6}{11}\right) \left(\frac{8}{7}\right) = -\frac{48}{77}$  3)  $-\frac{5}{6} \cdot \left(-\frac{4}{9}\right) \cdot \frac{1}{2}$   $-\frac{1}{18} + \frac{8}{18} - \frac{1}{2}$   $-\frac{15}{18} + \frac{8}{18} - \frac{1}{2}$   $-\frac{1}{18} - \frac{1}{2}$   $-\frac{1}{18} - \frac{1}{18}$   $-\frac{1}{18} - \frac{1}{18} - \frac{1}{18$ 

Multiplying Rational Numbers in Fraction Form

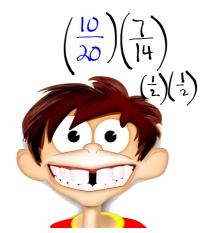
We should always try to reduce before we start the questions so we keep our numbers small

Determine the product:

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

First, we simplify:

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



## Then start multiplying

So, our new expression, looks like this:

=

$$(-4\frac{2}{4})$$
  $(-5\frac{2}{3})$   $(-5\frac{2}{3})$   $(-5\frac{2}{3})$   $(-7\frac{3}{3})$   $(-7\frac{3})$   $(-7\frac{3}{3})$   $(-7\frac{3}{3})$   $(-7\frac{3}{3})$   $(-7\frac{3}{3})$   $(-7$ 

## 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 \times 35 = -$67.51$ 

The shares lost \$67.51 that day.



## Practice Questions p. 128-129

Questions

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

9,14,15,16ab, 15, #12(last, night)

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)