

Write the number of problems you completed (12) on the top of your paper and start correcting.

$$1. 5\left(-\frac{2}{3}\right) = \underline{-3\frac{1}{3}}$$

$$3. -3\left(-\frac{4}{7}\right) = \underline{1\frac{5}{7}}$$

$$5. 4(-3) = \underline{-12}$$

$$7. -2(-3.4) = \underline{6.8}$$

$$9. -5(-1.2) = \underline{6}$$

$$11. \frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} = \boxed{\frac{1}{3}} \times \frac{3}{4} = \underline{\frac{1}{4}}$$

18. **Financial Literacy** Sandy has \$200 in her bank account.

- a. If she writes 6 checks for exactly \$19.98, what expression describes the change in her bank account?

$$\underline{6(-19.98)}$$

- b. What is her account balance after the checks are cashed?

$$\underline{200 - 119.88 = 80.12; \$80.12}$$

You will need your spiral/comp notebook for notes today.

Oct 8-3:18 PM

19. **Communicating Mathematical**

Ideas Explain, in words, how to find the product of $-4(-1.5)$ using a number line. Where do you end up?

Start at 0, then move 1.5 units to the left (because 1.5 is negative) 4 times. You are now on -6.

Then find the opposite of -6, which is 6.

20. Greg sets his watch for the correct time on Wednesday. Exactly one week later, he finds that his watch has lost $3\frac{1}{4}$ minutes. If his watch continues to lose time at the same rate, what will be the overall change in time after 8 weeks?

$$\underline{8\left(-3\frac{1}{4}\right) = -26; 26 \text{ minutes behind}}$$

21. A submarine dives below the surface, heading downward in three moves. If each move downward was 325 feet, where is the submarine after it is finished diving?

The submarine would be 975 feet below sea level, or -975 feet.

22. **Multistep** For Home Economics class, Sandra has 5 cups of flour. She made 3 batches of cookies that each used 1.5 cups of flour. Write and solve an expression to find the amount of flour Sandra has left after making the 3 batches of cookies.

$5 - 3(1.5)$ or $5 - 4.5$, Sandra has 0.5 cup, or half a cup of flour left.

Oct 8-3:30 PM

LESSON
4.2 Dividing Fractions



Interpret and compute
quotients of fractions.

LESSON
4.3 Dividing Mixed
Numbers

Oct 8-3:31 PM

When you **invert** a glass, you turn it over.



Oct 8-3:34 PM

Two numbers whose product is 1 are **reciprocals**. To write the reciprocal of a number, write the number as a fraction. Then invert the fraction.

Writing Reciprocals

Original Number	Fraction	Reciprocal	Equation
a. $\frac{3}{5}$	$\frac{3}{5}$	$\frac{5}{3}$	$\frac{3}{5} \times \frac{5}{3} = 1$
b. $\frac{9}{5}$	$\frac{9}{5}$	$\frac{5}{9}$	$\frac{9}{5} \times \frac{5}{9} = 1$
c. 2	$\frac{2}{1}$	$\frac{1}{2}$	$\frac{2}{1} \times \frac{1}{2} = 1$

$$\frac{7}{5} \rightarrow \frac{5}{7}$$

$$\frac{1}{10} \rightarrow \frac{10}{1}$$

$$\frac{5}{1} \rightarrow \frac{1}{5}$$

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To divide a number by a fraction, multiply the number by the reciprocal of the fraction. **or Keep Change Flip**



Oct 8-3:39 PM

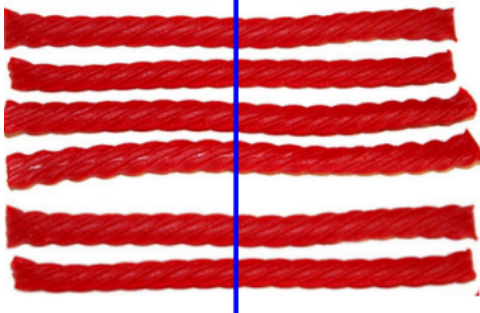
How many halves are there in 6 pieces of licorice?



Oct 8-3:50 PM

How many halves are there in 6 pieces of licorice? 12

$$6 \div \frac{1}{2} = 12$$



K - Keep the first fraction as is.

C - Change the division to multiplication

F - Flip (invert) the fraction

$$6 \div \frac{1}{2}$$

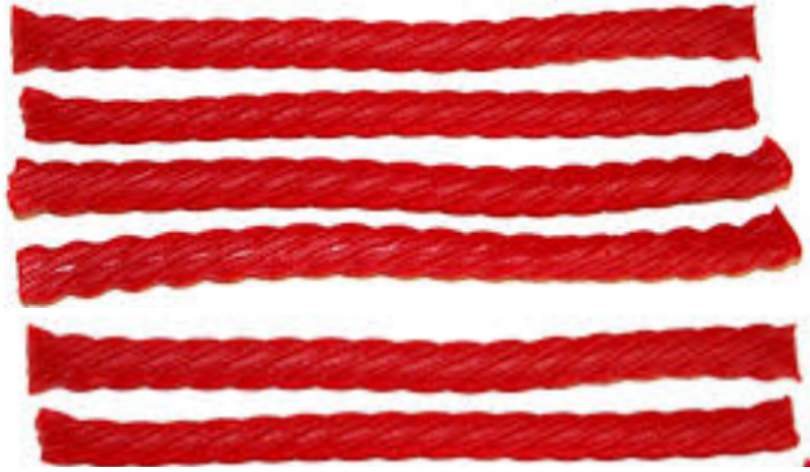
K C F

$$6 \cdot 2$$

12

Oct 8-3:39 PM

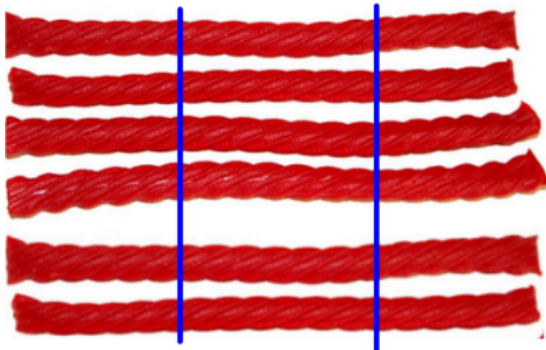
**How many thirds are there in
6 pieces of licorice?**



Oct 8-3:52 PM

**How many thirds are there in
6 pieces of licorice? 18**

$$6 \div \frac{1}{3} = 18$$



**K - Keep the first
fraction as is.**

**C - Change the
division to
multiplication**

**F - Flip (invert)
the fraction**

$$6 \div \frac{1}{3}$$

K ↓ C ↓ F ↓

$$\frac{6}{1} \cdot \frac{3}{1}$$

18

Oct 8-3:40 PM

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

$\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$


$\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$

$\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$

$\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$

$\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$

How many $\frac{1}{3}$ are in 5?



K C F

K - Keep the first fraction as is.

C - Change the division to multiplication

F - Flip (invert) the fraction

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

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

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$


$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$

$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$

How many $\frac{3}{4}$ are in 5? 6 $\frac{2}{3}$



K C F

K - Keep the first fraction as is.

C - Change the division to multiplication

F - Flip (invert) the fraction

$5 \div \frac{3}{4}$
 $\frac{1}{5} \cdot \frac{4}{3}$
 $\frac{4}{15} = 6 \frac{2}{3}$

Oct 8-3:41 PM

Shape Operate Simplify	\div
S	-NO mixed #s -Improper or proper fractions
O	KCF -Cross cancel if possible -Multiply across
S	-Reduce -Write as mixed #

Find $3\frac{5}{6} \div 1\frac{2}{3}$.

$$\begin{array}{r}
 2\frac{3}{6} \\
 \hline
 2\frac{2}{3} \\
 \hline
 10
 \end{array}
 \cdot
 \begin{array}{r}
 1\frac{2}{3} \\
 \hline
 5\frac{2}{3} \\
 \hline
 17
 \end{array}
 =
 \boxed{2\frac{3}{10}}$$

Oct 8-3:41 PM

YOUR TURN

6. Sheila has $10\frac{1}{2}$ pounds of potato salad. She wants to divide the potato salad into containers, each of which holds $1\frac{1}{4}$ pounds. **pg.93**
 How many containers does she need? Explain.

Shape
Operate
KCF

$$\begin{array}{r}
 10\frac{1}{2} \div 1\frac{1}{4} \\
 \hline
 21 \\
 \hline
 2\frac{1}{2} \\
 \hline
 11
 \end{array}
 \cdot
 \begin{array}{r}
 1\frac{1}{4} \\
 \hline
 5\frac{1}{4} \\
 \hline
 21
 \end{array}
 =
 8\frac{1}{2} \rightarrow \boxed{9}$$

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9. The area of a rectangular rug is $14\frac{1}{2}$ square yards. The length of the rug is $4\frac{1}{3}$ yards. What is the width?



$$A = l w$$

$$14\frac{1}{2} = 4\frac{1}{3} \cdot w$$

$$14\frac{1}{2} \div 4\frac{1}{3}$$

Shape
operate
 $\frac{14\frac{1}{2}}{4\frac{1}{3}}$

$$\frac{169}{12} \div \frac{13}{3}$$

$$13\frac{169}{12} \cdot \frac{3}{13} = \frac{13}{4} = 3\frac{1}{4} \text{ yd}$$

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Homework - ALL worked out in spiral/comp notebook in boxes.

-Page 88 (1-6)

-Page 94 (1-6)

-Page 95 (10-14)

17 Problems

Wed you will begin your retake of lowest quiz/test. Be sure to identify what test this will be.

Thursday - Multiply/divide fractions quiz

Oct 8-3:55 PM