#### Do Now:

- 1.) -7 \* (-16)
- 2.) Find the area of a rectangle if length is 15 inches and width is 11 inches.
- 3.) Find  $x^2$  if x = 8

## Do Now:

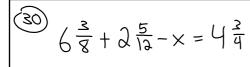
On Monday, Luis's plant was  $2\frac{3}{4}$  inches long. By Friday, it was  $8\frac{1}{8}$  inches long. How much did the plant grow?

#### Do Now:

1. Solve the equation.

$$7\frac{7}{6} - 6\frac{5}{9} - y = \frac{1}{3}$$

- 2. Explain the process for adding or subtracting two fractions with:
  - a. common denominators
  - b. different denominators



 $32 + 3\frac{4}{7} - 5\frac{2}{5} = |\frac{1}{3}|$ 

**Do Now:** Multiplication Challenge

### **5.3 Multiplying Fractions**

7.NS 7.EE

- SWBAT multiply fractions and mixed numbers.
- SWBAT understand numbers; compute fluently.
- Calculators: No

### **Multiplying Fractions**

$$\frac{a}{b} * \frac{c}{d} = \frac{a * c}{b * d}$$

Find the product.

1.) 
$$\frac{-2}{5} * \frac{-2}{3} = \frac{-2(-2)}{5(3)} = \frac{4}{15}$$

2.) 
$$-2\frac{1}{5} * 3\frac{3}{4}$$

$$-\frac{11}{5} \cdot \frac{15}{4} = \frac{-11(15)}{5(4)} = \frac{-165}{30 \times 5} \frac{-33}{4}$$

$$= -\frac{11}{4} \cdot \frac{3}{4} = \frac{-11(3)}{1(4)} = \frac{-33}{4}$$

$$= -\frac{11(3)}{1(4)} = \frac{-33}{4}$$

$$\frac{3.)}{4} = \frac{-1(-7)}{4(3)} = \frac{7}{12}$$

4.) 
$$-4\frac{+9}{10}*\frac{5}{7}$$

$$-\frac{1}{10}*\frac{5}{7} = \frac{-7(1)}{2(1)} = \frac{-7}{2}$$

$$= -\frac{7}{2}$$

Find the product.

1.) 
$$\frac{-5}{12} * \frac{9}{10} = \frac{-3}{8}$$

2.) 
$$\frac{-5}{6} * \frac{7}{9} = \frac{-35}{54}$$

$$\frac{1}{6} * \frac{12}{17} = \boxed{2}$$

4.) 
$$\frac{7}{12} * -15$$
 $\frac{-35}{4}$ 
 $\frac{7}{12} * \frac{-35}{4}$ 
 $\frac{7}{12} * \frac{1}{12} * \frac{1}{12}$ 
 $\frac{7}{12} * \frac{1}{12} * \frac{1}{12}$ 

A postcard is  $5\frac{1}{2}$  inches long and  $3\frac{3}{4}$  inches wide. Find the area of the postcard.

A dog's bed is  $2\frac{1}{8}$  feet wide and  $5\frac{1}{3}$  feet long. Find the area of the bed.

Evaluate 
$$a^2b$$
, when  $a = \frac{5}{6}$  and  $b = \frac{-9}{10}$ 

$$\frac{5}{6} - \frac{9}{10} = \frac{-5}{8}$$

Evaluate the expression.

$$-\frac{7}{8}+5\frac{1}{2}*\frac{11}{15}$$

$$\frac{5}{2}\left(\frac{8}{9} - \frac{5}{12}\right)$$

$$5 - \left(\frac{1}{3} + \frac{1}{6}\right)$$

### Exit Pass 5.3

Explain how to multiply mixed numbers.

"Don't blame the sea if you cannot catch a fish."

Working individually or with a partner, complete the workbook.

Workbook pg.



# Reflection of Today's Lesson 5.3 Multiplying Fractions

7.NS 7.EE

- SWBAT multiply fractions and mixed numbers.
- SWBAT understand numbers; compute fluently.
- Calculators: No

5.3 MC3.notebook December 02, 2015

# <u>Homework</u>

pg. 232 #7-23 odds, 29-31 all, 33-35 all



Test Corrections due tomorrow (Must be signed)