Do Now:

1.)
$$\frac{10}{25} = \frac{?}{5}$$

2.)
$$\frac{7}{10} = \frac{?}{30}$$

3.)
$$\frac{5}{8} = \frac{?}{16}$$

Do Now:

1. Describe and correct the error.

$$\frac{3}{4} + \frac{3}{4} = \frac{3+3}{4+4} = \frac{6}{8} = \frac{3}{4}$$

2. Monday morning, the pile of leaves was $11\frac{1}{4}$ inches high. Tuesday morning, the pile was $7\frac{3}{4}$ inches high. By how many inches did the pile change?

(3½ inches)

5.2 Fractions with Different Denominators

7.NS 7.EE

- SWBAT add and subtract fractions with different denominators.
- SWBAT understand numbers; compute fluently.
- Calculators: No

Adding and Subtracting Fractions

To add or subtract fractions:

- 1) Denominators must be the same -If not the same, find the LCD
- 2) Add or subtract the numerators

(Keg denuminators the same)

Find the sum or difference. Then simplify if possible.

$$5 = 5, 10, 15, 20, 25, 30, 35, 40, 45$$

$$8 = 8, 16, 24, 32, 40, 48, ...$$

$$8 = 8, 16, 24, 32, 40, 48, ...$$

possible.
$$5 = 5, 10, 15, 20, 25, 30, 35, 40, 48, ...$$

$$5 \cdot 8 + \frac{2 \cdot 8}{5 \cdot 8}$$

$$8 = 8, 16, 24, 32, 40, 48, ...$$

$$\frac{35}{40} + \frac{16}{40} = \frac{35+16}{40} = \frac{51}{40} \left(\frac{11}{40} \right)$$

b.)
$$\frac{3}{3} \cdot \frac{3}{10} = \frac{5 \cdot 5}{6 \cdot 5}$$

$$\frac{9}{30} = \frac{25}{30} = \frac{9 - 25}{30} = \frac{-16 \cdot 3}{30 \cdot 5} = \frac{-8}{15}$$

$$\frac{6 \cdot 3}{6 \cdot 10} = \frac{5 \cdot 10}{6 \cdot 10}$$

$$\frac{18}{60} = \frac{50}{60} = \frac{18 \cdot 50}{60} = \frac{-33 \cdot 44}{60 \cdot 44}$$

$$= \frac{-8}{15}$$

Find the sum or difference. Then simplify if possible.

a.)
$$-\frac{4}{7} - \frac{1}{2} = \frac{-15}{14}$$

b.)
$$\frac{1}{6} - \frac{3}{8} = \frac{-5}{24}$$

Find the sum or difference. Then simplify if possible.

a.)
$$\frac{6 \cdot 2x}{6 \cdot 5} - \frac{x \cdot 5}{6 \cdot 5}$$

$$\frac{12x}{30} - \frac{5x}{30} = \frac{12x - 5x}{30} = \frac{7x}{30}$$

b.)
$$\frac{8 \cdot 5}{8 \cdot y} + \frac{7 \cdot y}{8 \cdot y}$$

$$\frac{40}{8y} + \frac{7y}{8y} = \frac{40 + 7y}{8y}$$

Find the sum or difference. Then simplify if possible.

a.)
$$\frac{5d}{8} - \frac{2d}{5} = \boxed{\frac{9d}{40}}$$

b.)
$$-\frac{10}{x} + \frac{3}{4} = \boxed{\frac{40+3x}{4x}}$$

On Monday, Jaquaan'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? $\frac{1}{8} = \frac{65}{8} \qquad \frac{1}{4} = \frac{11}{4}$ $\frac{1}{8} = \frac{11}{8}$ $\frac{$

Solve the equation. For 2 Dajo Points
$$7\frac{7}{6} - 6\frac{5}{9} - y = \frac{1}{3}$$

Exit Pass 5.2

Explain the process for adding or subtracting two fractions with:

- a. common denominators
- b. different denominators

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

Working individually or with a partner, complete the workbook.

Workbook pg.



Reflections of Today's Lesson

5.2 Fractions with Different Denominators

7.NS 7.EE

- SWBAT add and subtract fractions with different denominators.
- SWBAT understand numbers; compute fluently.
- Calculators: No

Homework

pg. 227 #7-23 odds, 24-27 all, 30, 32



* Test corrections due Thurs.

(Must be signed)