

**Do Now:** Write the mixed number as an improper fraction

- 1.)  $2 \frac{1}{3}$   $\left(\frac{7}{3}\right)$
- 2.)  $-4 \frac{5}{8}$   $\left(\frac{-37}{8}\right)$
- 3.)  $10 \frac{2}{5}$   $\left(\frac{52}{5}\right)$
- 4.)  $-1 \frac{19}{20}$   $\left(\frac{-39}{20}\right)$

Dec 6-7:25 AM

(24)

$$\frac{8}{5x} + \frac{3}{5x} - \left(\frac{-4}{5x}\right)$$

$$\frac{8+3-(-4)}{5x} = \frac{11+4}{5x} = \frac{15}{5x} = \left(\frac{3}{x}\right)$$

Simplify

Oct 5-8:00 AM

**5.3 Adding and Subtracting Unlike Fractions**

- 7.NS.1
- 7.NS.2
- 7.EE

- SWBAT add and subtract unlike fractions.
- SWBAT identify the numerator and the denominator, understanding the importance of each.

Calculators: No

Dec 6-7:27 AM

Find the sum or difference.

a.)  $\frac{5}{12} + \frac{1}{3}$

$$\frac{5}{12} + \frac{1 \cdot 4}{3 \cdot 4} = \frac{5+4}{12} = \frac{9}{12} = \left(\frac{3}{4}\right)$$

b.)  $-\frac{5}{6} - \frac{7}{9}$

$$\frac{-5 \cdot 3}{6 \cdot 3} - \frac{7 \cdot 2}{9 \cdot 2} = \frac{-15}{18} - \frac{14}{18} = \frac{-15 + (-14)}{18} = \left(\frac{-29}{18}\right)$$

Dec 6-7:27 AM

Find the sum or difference.

a.)  $-\frac{3}{8} + \frac{1}{2}$

$$-\frac{3}{8} + \frac{1}{2} = \left(\frac{1}{8}\right)$$

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

$$-\frac{1}{4} - \left(-\frac{2}{3}\right) = \left(\frac{5}{12}\right)$$

Dec 6-7:27 AM

**Adding Mixed Numbers**

$-4 \frac{2}{5} + (-2 \frac{6}{11})$

$$-4 \frac{2}{5} + \left(-2 \frac{6}{11}\right)$$

$$\frac{-22 \cdot 11}{5 \cdot 11} + \left(\frac{-28 \cdot 5}{11 \cdot 5}\right) = \frac{-242}{55} + \frac{-140}{55}$$

$$= \frac{-242 + (-140)}{55} = \left(\frac{-382}{55}\right)$$

$$\begin{array}{r} 22 \\ \times 11 \\ \hline 242 \\ + 220 \\ \hline 242 \end{array}$$

Dec 6-7:30 AM

### Adding Mixed Numbers

$3 \frac{4}{9} + 7 \frac{7}{12}$

$9: 9, 18, 27, 36, 45$   
 $12: 12, 24, 36, 48$

$$3 \frac{4}{9} + 7 \frac{7}{12}$$

$$\frac{31 \cdot 12}{9 \cdot 12} + \frac{91 \cdot 9}{12 \cdot 9} + \frac{372}{1191}$$

$$\frac{372}{108} + \frac{819}{108} = \frac{1191}{108} = 3$$

$$\frac{91 \cdot 9}{12 \cdot 9} = \frac{819}{108}$$

$$= \frac{397}{36}$$

Dec 6-7:30 AM

Jaheim volunteered to work  $7 \frac{1}{2}$  hours at a weekend fundraiser. On Saturday, he worked for  $2 \frac{2}{3}$  hours. How many hours will he be working at the fundraiser on Sunday?

Dec 6-7:31 AM

The width of a rectangle is  $2 \frac{3}{8}$  inches. The rectangle is  $1 \frac{3}{4}$  inches longer than it is wide. Find the length of the rectangle and the perimeter of the rectangle.

$2 \frac{3}{8} \text{ in.}$   
 $2 \frac{3}{8} \text{ in.} + \frac{19}{8} \text{ in.}$   
 $\frac{19}{8} + \frac{7}{2}$   
 $\frac{19}{8} + \frac{14}{8} = \frac{19+14}{8} = \frac{33}{8} \text{ in.}$  (Length)

$P = \frac{33}{8} + \frac{33}{8} + \frac{19}{8} + \frac{19}{8}$   
 $= \frac{33+33+19+19}{8} = \frac{66+38}{8} = \frac{104}{8} = \frac{52}{4} = \frac{26}{2} = 13$  (Perimeter)  
 $= 13 \text{ in.}$

Dec 6-7:32 AM

### Simplifying an expression

$a/2 - a/6$

$$3 \cdot \frac{a}{2} - \frac{a}{6} = \frac{3a}{6} - \frac{a}{6} = \frac{3a-a}{6}$$

$$= \frac{2a}{6} = \frac{a}{3}$$

Dec 6-7:45 AM

### Simplifying an expression

$m/5 - 2m/3$


$$3 \cdot \frac{m}{3 \cdot 5} - \frac{2m \cdot 5}{3 \cdot 5} = \frac{3m}{15} - \frac{10m}{15} = \frac{3m-10m}{15}$$

$$= \frac{-7m}{15}$$

Dec 6-7:45 AM

### Exit Pass 5.3

Explain how to add two fractions with different denominators.



Sep 26-7:26 AM

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

Working individually or with a partner, complete the worksheet 5.3.

#2-30 Evens Only



#1-31 Odds Only



Sep 26-7:27 AM

### Reflection of Today's Lesson

#### 5.3 Adding and Subtracting Unlike Fractions

7.NS.1

- SWBAT add and subtract unlike fractions.
- SWBAT understand numbers; understand ways of representing numbers; compute fluently.

Oct 1-10:17 AM

### Homework

pg. 234 #12-50 Evens Only



Sep 26-7:24 AM