Warm-Up

8/4/17

1. Arrange the fractions in

order from least to greatest

- a. $\frac{1}{5}$, $\frac{1}{7}$, $\frac{1}{3}$
- b. $\frac{2}{5}$, $\frac{2}{7}$, $\frac{2}{3}$
- c. $\frac{5}{6}$, $\frac{3}{6}$, $\frac{1}{6}$
- d. $\frac{5}{12}$, $\frac{8}{12}$, $\frac{4}{12}$

$$\frac{1}{8} \frac{1}{4} \frac{1}{5} \frac{1}{3} \frac{1}{8} \frac{1}{4} \frac{1}$$

Essential Question 8/4/17

 How can we add, subtract, and multiply fractions?

Standard:

MFANSQ1. Students will analyze number relationships.

a. Solve multi-step real world problems, analyzing the relationships between all four operations.

Opening: 8/4/17

Review steps for adding and subtracting fractions.

Step 1: Make sure the bottom numbers (the denominators) are the same

Step 2: Add the top numbers (the numerators), put the answer over the denominator

Step 3: Simplify the fraction (if needed)

Home Work Review 8/4/17

- Any questions?
- Turn in your HW packet

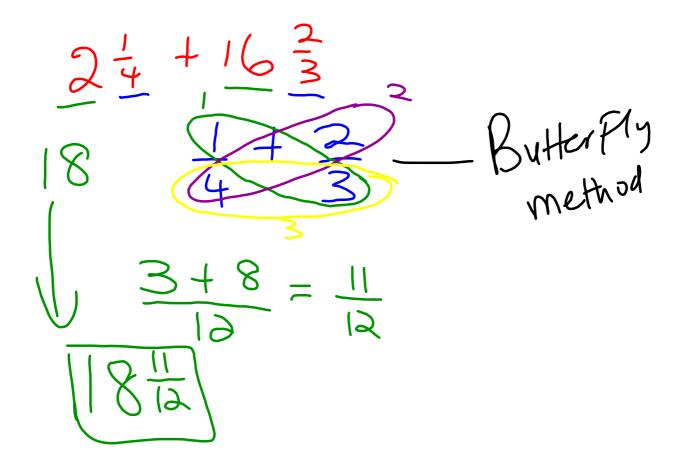
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1)
$$12 \frac{54 \div 9 = 6}{99 \div 9 = 11}$$

12) $15 \frac{280 \div 20 = 14}{320 \div 20}$

13) $15 \frac{7}{8}$

6



LCM Method

4: $4: 8_{1}(2)$ 3: $3_{1}, 6_{1}, 9_{1}(2)$ 3. $\frac{1}{3.4}$

Subtraction: Example 1 (I do)

$$\frac{3}{8}$$
 \times^2 $\frac{5}{16}$ $= \frac{6}{16} - \frac{5}{16}$ $= \frac{6}{16} - \frac{5}{16}$

Example 2 (We do)

$$\frac{7}{8} - \frac{1 \times 4}{2 \times 4} = \frac{7}{8} - \frac{4}{8}$$

$$= \frac{3}{8}$$

You Try This! Subtraction

$$\frac{6.1}{8.1} = \frac{1.4}{2.4} = \frac{2.4}{8.1}$$

Class Work 8/4/17 Day 2: Adding and Subtracting Fractions

Add or subtract the following fractions.

$$\frac{7.2}{3.3} + \frac{2.3}{7.3}$$

$$= \frac{14+6}{21}$$

$$= \frac{10+7}{14}$$

$$= \frac{3}{14}$$

$$= \frac{3}{14}$$

c.
$$\frac{3}{4} - \frac{2}{7}$$

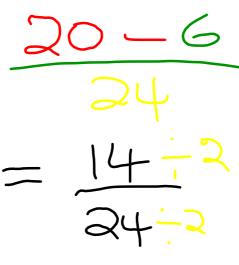


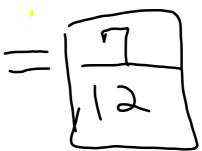


$$=$$
 $\frac{13}{28}$

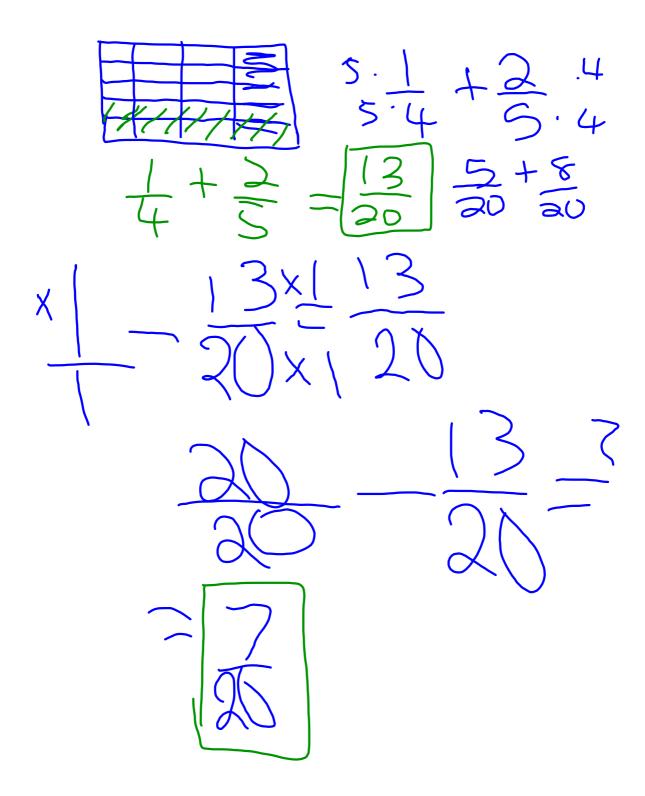
d.
$$\frac{5}{6} - \frac{1}{4}$$







2. Nadia spent 1/4 of her money on a shirt and 2/5 of her money on new shoes. What fraction of Nadia's money was spent? What fraction of her money is left?



3. Carlos wants to practice piano 2 hours each day. He practices piano for 3/4 hour before school and 7/10 hour when he gets home. How many hours has Carlos practiced piano? How much longer does he need to practice before going to bed in order to meet his goal?

$$\frac{30+28}{40} = \frac{30+28}{40} = \frac{30$$

4. Mr. Kelly used 5/8 of a tank of gas on a trip to visit relatives for the weekend and another one half of a tank commuting to work the next week. He then took another weekend trip and used 1/4 tank of gas. How many tanks of gas did Mr. Kelly use altogether?

$$\frac{5}{8} + \frac{1.4}{4.2}$$

$$= \frac{5}{8} + \frac{4}{8.4} + \frac{2}{8} = \frac{11}{8}$$

$$= \frac{13}{8} + \frac{13}{4nkofgas}$$

5. Add or subtract the following fractions.

a.
$$3\frac{1}{4} + 3\frac{5}{8}$$

b.
$$5\frac{2}{7} - 4\frac{2}{3}$$

$$=\frac{111-98}{21}$$



c.
$$5\frac{1}{2}-1\frac{3}{4}$$
d. $4\frac{2}{3}+6\frac{1}{5}$

$$\frac{11}{2}\cdot\frac{7}{4} = 10\frac{2}{3}+\frac{1}{5}$$

$$\frac{22}{4}+\frac{1}{5}$$

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$$\frac{22}{4}+\frac{1}{5}$$

$$\frac{22}{4}+\frac{1}{5}$$

$$\frac{23}{4}+\frac{1}{5}$$

Fraction Operations Practice

Add or Subtract. Write each answer in simplest form.

1.
$$\frac{3}{7} - \frac{2}{5}$$

2.
$$\frac{4}{9} + \frac{5}{6}$$

3.
$$12\frac{1}{4} + 5\frac{1}{12}$$

4.
$$15\frac{7}{12} - 14\frac{3}{8}$$

5.
$$\frac{4}{5} - \frac{7}{11}$$

6.
$$\frac{1}{6} + \frac{3}{5}$$

Preview

Multiplication

- Multiply the numerators and put in the numerator of the result
- Multiply the denominators and put in the denominator of the result

$$\frac{7}{8} \times \frac{4}{9} =$$

Multiplication - Let's Try It!

$$\frac{7}{9} \times \frac{1}{2} =$$

$$\frac{4}{7} \times \frac{9}{11} =$$

$$\frac{7}{5} \times \frac{1}{3} =$$

$$\frac{30}{4} \times \frac{7}{14} =$$

Exit Ticket

8/4/17

1.
$$\frac{3}{8} + \frac{9}{8} =$$

$$\frac{2}{3} - \frac{1}{4} =$$

Math Oldie Video.mp4