

Agenda:

- 1) bell: 9 square puzzle
- 2) Finish lesson 11 notes

3) Homework: pgs 94-95 and dividing fractions math aids practice pg ~~94~~ ^{just before p. 99}

NEVER DISCUSS
INFINITY WITH A
MATHEMATICIAN.
YOU'LL NEVER
HEAR THE END
OF IT

Oct 5-7:54 AM

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Exercises

1. A turtle walks $\frac{7}{8}$ of a mile in 50 minutes. What is the unit rate expressed in miles per hour?

- a. To find the turtle's unit rate, Meredith wrote and simplified the following complex fraction. Explain how the fraction $\frac{5}{6}$ was obtained.

$$\frac{50 \text{ mi}}{60 \text{ min}} = \frac{5}{6}$$

Turned
minutes
to hours.

$$\frac{\left(\frac{7}{8}\right) \cdot \frac{3}{24}}{\left(\frac{5}{6}\right) \cdot \frac{4}{24}} = \frac{21}{20}$$

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- b. Did Meredith simplify the complex fraction correctly? Explain how you know.

KCF

$$\frac{7}{8} \div \frac{5}{6}$$

$$\frac{7}{\cancel{4}8} \times \frac{\cancel{6}^3}{5} = \frac{21}{20}$$

LCM

$$\frac{\frac{7}{\cancel{8}} \times \cancel{2}^3}{\frac{5}{\cancel{6}} \times \cancel{4}^4} = \frac{21}{20}$$

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2. For Anthony's birthday his mother is making cupcakes for his 12 friends at his daycare. The recipe calls for $3\frac{1}{3}$ cups of flour. This recipe makes 2 $\frac{1}{2}$ dozen ^{cupcakes} cookies. Anthony's mother has only 1 cup of flour. Is there enough flour for each of his friends to get a cupcake? Explain and show your work.

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flour	cupcakes
$3\frac{1}{3}$	30
1	?

$$30 \div 3\frac{1}{3}$$

$$30 \div \frac{10}{3}$$

$$3\cancel{3}^0 \times \frac{3}{\cancel{10}_1} = 9$$

$$2\frac{1}{2} \text{ dozen}$$

$$2 \text{ dozen} = 24$$

$$\frac{1}{2} \text{ doz} = \frac{6}{30}$$

cupcakes

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3. Sally is making a painting for which she is mixing red paint and blue paint. The table below shows the different mixtures being used.

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

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

$$6\frac{1}{4} \div 3\frac{3}{4}$$

$$6\frac{2}{3} \div 4$$

Red Paint (Quarts)	Blue Paint (Quarts)
✓ $1\frac{1}{2}$	$2\frac{1}{2}$
✓ $2\frac{2}{5}$	4
✓ $3\frac{3}{4}$	$6\frac{1}{4}$
4	$6\frac{2}{3}$
1.2	2
1.8	3

- a. What are the unit rates for the values?

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- b. Is the amount of blue paint proportional to the amount of red paint?

yes - unit
Rate is $1\frac{2}{3}$ or $\frac{5}{3}$

- c. Describe, in words, what the unit rate means in the context of this problem.

$1\frac{1}{3}$ Quarts of blue for every
1 quart of Red

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Dividing Fractions

1) $\frac{3}{4} \div \frac{2}{10} =$ $\frac{\cancel{3}^3}{\cancel{4}_2} \div \frac{2}{10} = \frac{15}{4} = 3 \frac{3}{4}$

2) $\frac{2}{4} \div \frac{1}{5} =$ $\frac{3}{\cancel{2}_1} \times \frac{10}{2} = \frac{15}{4} = 3 \frac{3}{4}$

3) $\frac{1}{2} \div \frac{3}{5} =$

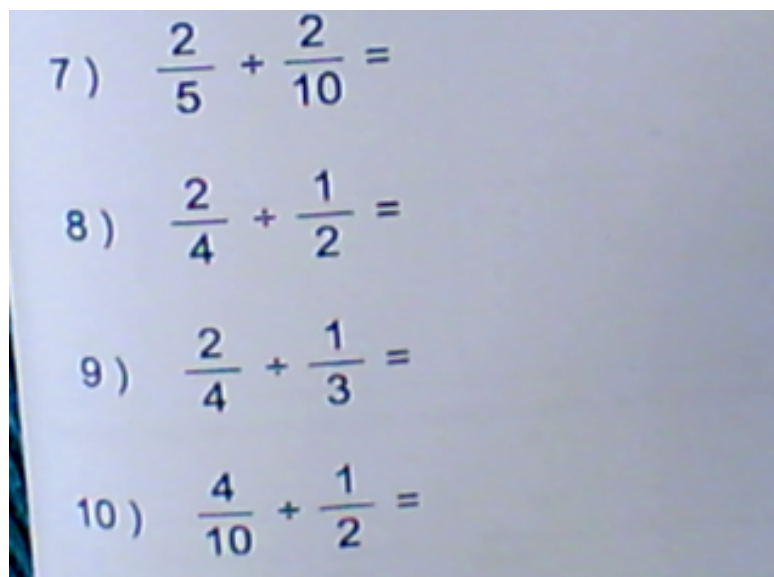
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4) $\frac{2}{3} \div \frac{4}{5} =$

5) $\frac{3}{5} \div \frac{2}{3} =$

6) $\frac{6}{10} \div \frac{2}{3} =$

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A photograph of a notebook page showing four math problems. The problems are written in blue ink and are numbered 7 through 10. Each problem involves the addition of two fractions.

7) $\frac{2}{5} + \frac{2}{10} =$

8) $\frac{2}{4} + \frac{1}{2} =$

9) $\frac{2}{4} + \frac{1}{3} =$

10) $\frac{4}{10} + \frac{1}{2} =$

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