

Name Key

\* DUE Monday 1/27/20  
4<sup>th</sup> Grade Homework - Week 21

Spiral Review

$4,509 - 3,112 = 1,397$

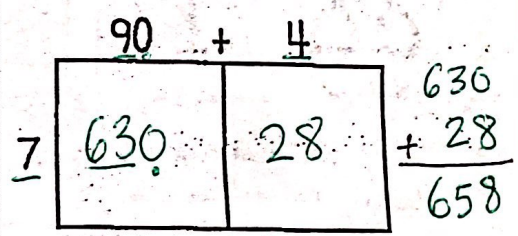
$9,448 + 1,235 = 10,683$

$12,350 - 5,589 = 6,761$

$7,201 + 2,799 = 10,000$

Keshavn is 35 years old.  
Timothy is 7 years younger than Keshavn.  
Esmerelda is 8 years older than Timothy. Micah is 9 years younger than Esmerelda. How many years old is Micah?  
 $35 - 7 + 8 - 9 = 27$

Use the area model to multiply.  
 $7 \times 94 = 658$

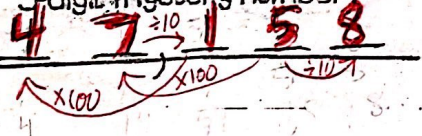


Tuesday

Mrs. Preston gives her class clues about a 5-digit mystery number.

- The 7 is in a place that is 100 times greater than the place of the 5.
- The 1 is in a place that is 10 times less than the place of the 7.
- The 8 is in a place that is 10 times less than the place of the 5.
- The 4 is in a place that is 100 times greater than the 1.

What is Mrs. Preston's 5-digit mystery number?



Use your notebook (Unit 1).  
How many times greater is the value of the 5 in 45,000 than the value of the 5 in 4,500?

Write to explain.  
 $4(5)000$      $4(5)00$   
↑                    ↑  
5,000                500  
 $5,000 = 10 \times 500$   
(Ten times greater)

Select the expressions with a product of 2,400.

- $300 \times 8 = 2,400$
- $800 \times 3 = 2,400$
- $6 \times 40 = 240$
- $2 \times 120 = 240$
- $1,200 \times 2 = 2,400$

$56 \div 8 = 7$

$6 \times 7 = 42$

$18 - 5 = 13$

$48 \div 6 = 8$

$12 + 7 = 19$

$17 - 8 = 9$

*Use your notebook!*

Select the fractions equivalent to  $\frac{1}{4}$ .

- $\frac{1}{3}$  X
- $\frac{1}{6}$  X
- $\frac{3}{4}$  X
- $\frac{2}{8} \div 2 = \frac{1}{4}$
- $\frac{3}{12} \div 3 = \frac{1}{4}$
- $\frac{8}{16} \div 8 = \frac{1}{2}$  X

This question has two parts, A-B.

**Part A** - Dallas bought a pack of t-shirts. Six of the shirts were white, and four of the shirts were black. What fraction of the shirts were not white?

6 white  
4 black (not white)  
10 total

$\frac{4}{10}$  not white  
(or  $\frac{2}{5}$ )

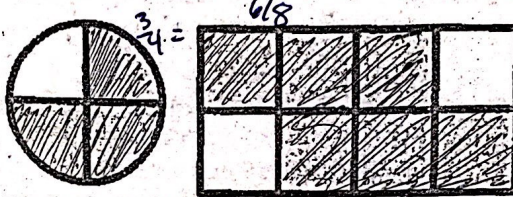
**Part B** - Write an equivalent fraction for the fraction of shirts that were not white.

$\frac{2}{5}, \frac{6}{15}, \frac{8}{20}, \frac{10}{25}, \frac{12}{30}$  more

↑  
(Simplest form)

★ Different answer?  
Show Ms. N!

The models below represent equivalent fractions.



Circle the fractions below that are equivalent to the models.

- $\frac{1}{4}$
- $\frac{3}{4}$
- $\frac{2}{8}$
- $\frac{6}{8}$
- $\frac{3}{12}$
- $\frac{9}{12}$

What fraction with 9 in the denominator is equivalent to  $\frac{1}{3}$ ?

$\frac{1}{3} \times 3 = \frac{3}{9}$

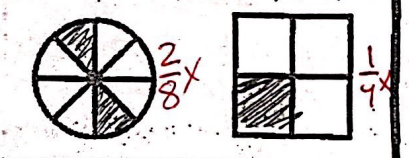
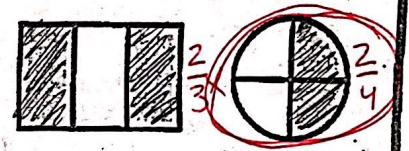
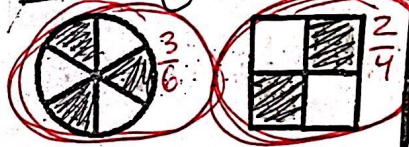
$\frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$

$\frac{5}{10} \div \frac{5}{5} = \frac{1}{2}$

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

$\frac{1}{5} \times \frac{2}{2} = \frac{2}{10}$

Which of the models below represent a fraction that is equivalent to  $\frac{1}{2}$ ?



Madison drew the fraction model below.



Draw an equivalent fraction model.

Show Ms. N!  $\downarrow$

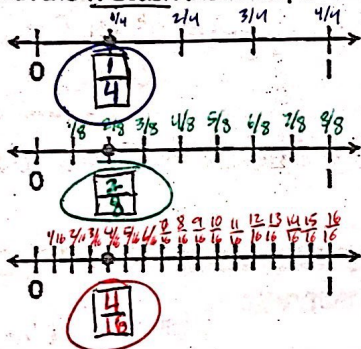


Name \_\_\_\_\_

4<sup>th</sup> Grade Homework- Week 21

Wednesday

The number lines below represent equivalent fractions. Label each point with the fraction that it represents.



Is there a limit on the number of equivalent fractions a given fraction can have? Explain.

There is no limit on the number of equivalent fractions a given fraction can have because the whole can be divided smaller and smaller forever!

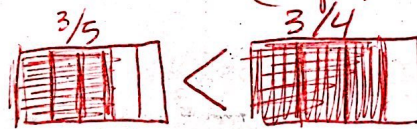
$$\frac{10}{14} \div \frac{2}{2} = \frac{5}{7}$$

This question has 4 parts, A-C.

**Part A** - Keela says that  $\frac{1}{4}$  is equivalent to  $\frac{3}{8}$  because they have the same numerator. Layla thinks that Keela is incorrect. Who is correct, Keela or Layla?

Layla

**Part B** - Draw a fraction model to prove who is correct. (Sample)



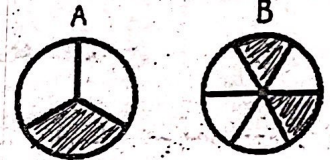
(Show Ms. N if different!)

**Part C** - Explain your thinking.

Layla is correct because a whole cut into five parts will have smaller pieces than if that whole was cut into four pieces.

(sample answer!)

Select the statements that best describe the fraction models.



- (6) B has more parts than A (3)
- B has fewer parts than A X
- B is equivalent to A (1/3)
- B is larger than A X
- B is smaller than A X

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

$$\frac{1}{2} \times 5 = \frac{5}{10}$$

$$\frac{2}{8} \div 2 = \frac{1}{4}$$

$$\frac{2}{3} \times 4 = \frac{8}{12}$$

$$\frac{1}{5} \times 3 = \frac{3}{15}$$

$$\frac{2}{6} \times 2 = \frac{4}{12}$$

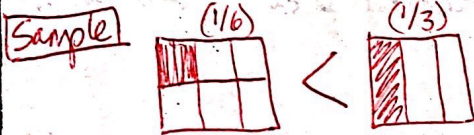
Comparing Fractions → Math notebook page 38

114

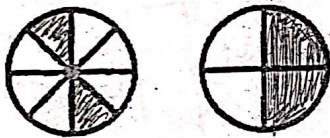
Tahani said that  $\frac{1}{3}$  is greater than  $\frac{1}{6}$  because 6 is greater than 3. Is she correct? yes NO

Draw a model to show your thinking.

Show Ms. N!



Compare the fraction models below. Write an inequality to represent the models.



$\frac{2}{8} < \frac{2}{4}$

Circle the fractions that would make the inequality true.

$\frac{1}{2} > \frac{\square}{\square}$

- $\frac{1}{6}$
- $\frac{5}{8} > \frac{1}{2}$
- $\frac{2}{3} > \frac{1}{2}$
- $\frac{1}{3}$

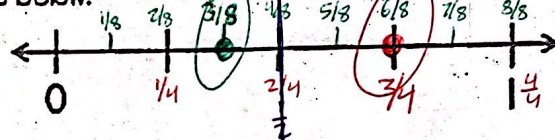
Compare the fractions using  $<$ ,  $>$ , or  $=$

$\frac{3}{9} = \frac{1}{3}$       $\frac{1}{2} > \frac{1}{3}$       $\frac{5}{10} = \frac{1}{2}$

$\frac{3}{6} < \frac{5}{6}$       $\frac{2}{12} = \frac{1}{6}$       $\frac{8}{9} > \frac{3}{8}$

This question has 4 parts, A-D. (Notebook page 39)

Part A - Draw, label, and compare  $\frac{3}{8}$  and  $\frac{3}{4}$  using the number line below.



Part B - What benchmark fraction can you use to compare  $\frac{3}{8}$  and  $\frac{3}{4}$ ?  $\frac{1}{2}$

Part C - Write an inequality comparing  $\frac{3}{8}$  and  $\frac{3}{4}$  using the benchmark fraction.

$\frac{3}{8} < \frac{1}{2} < \frac{3}{4}$

Part D - Why is  $\frac{1}{2}$  a good benchmark fraction to use? (Sample)  $\frac{1}{2}$  of 8 is 4, so it's easy to see that  $\frac{3}{8} < \frac{4}{8}$  (or  $\frac{1}{2}$ ).  $\frac{1}{2}$  of 4 is 2, so it's easy to see that  $\frac{3}{4} > \frac{2}{4}$  (or  $\frac{1}{2}$ )

Select the inequalities that are true.

- $\frac{1}{4} < \frac{1}{2}$
- $\frac{7}{8} > \frac{1}{7}$
- $\frac{2}{5} < \frac{3}{5}$
- $\frac{2}{3} < \frac{2}{5}$
- $\frac{3}{6} > \frac{1}{3}$
- $\frac{5}{5} < \frac{2}{2}$
- $\frac{2}{7} > \frac{2}{8}$
- $\frac{1}{9} < \frac{1}{5}$

Thursday

VF2