

Name: \_\_\_\_\_ Period: \_\_\_\_\_

Week 9 Homework Packet – 7<sup>th</sup> Grade Math

**ASSIGNMENT DUE TUESDAY, OCTOBER 4, 2016**

Unit 1, Chapter 4 – Rational Numbers

Score  
**/4**

Week Score  
**/12**

Stamp

Determine which of each pair of rational numbers is greater. You may use any method you wish, but show all work.

1)  $\frac{3}{5}$  and  $\frac{7}{9}$

2)  $\frac{2}{3}$  and  $\frac{7}{10}$

3)  $\frac{4}{5}$  and  $\frac{7}{9}$

4)  $\frac{2}{7}$  and  $\frac{1}{4}$

5)  $\frac{6}{5}$  and  $\frac{5}{4}$

6)  $\frac{3}{10}$  and  $\frac{1}{3}$

7) A car drives  $5\frac{7}{10}$  miles before filling up the gas tank. The car then drives another  $10\frac{9}{10}$  miles. How many total miles has the car driven? Show all work and write your answer as a simplified mixed fraction.

8) In phys ed class, Erica has run  $\frac{9}{10}$  of a mile and Dmitri has run  $\frac{7}{10}$  of a mile. How much farther has Erica run than Dmitri? Show all work and write your answer in simplified form.

9) A recipe for ice cream calls for  $\frac{1}{4}$  cup of sugar for the first part of the recipe and  $\frac{3}{4}$  cup of sugar for the last part of the recipe. How much total sugar is required for the entire recipe? Write your answer in simplified form.

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7<sup>th</sup> Grade Math

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**ASSIGNMENT DUE WED/THU. OCTOBER 5/6. 2016**

Unit 1, Chapter 4 – Rational Numbers

For each problem below, show all work and write your answers in simplified form.

1) Pam walks  $\frac{7}{8}$  of a mile to school and her friend DeShawn walks  $\frac{1}{2}$  of a mile to school. How much farther does Pam walk than DeShawn?

2) A school wants to make a new playground by converting an abandoned lot. They decide that  $\frac{3}{8}$  of the lot will be used for basketball courts and  $\frac{1}{4}$  of the lot will be used for swings. How much is left for soccer fields?

3) You give  $\frac{1}{6}$  of a pan of brownies to a friend and then set aside  $\frac{1}{2}$  of the pan for a party. How much of the pan remains?

4) Each day, the polar bear at Clay's zoo eats  $\frac{2}{3}$  of a bucket of trout and  $\frac{1}{2}$  of a bucket of salmon. How many buckets of fish does the polar bear eat daily?

Add or subtract the following fractions. Show all work and write all answers in simplified form.

5)  $\frac{3}{4} + \frac{2}{7}$

6)  $\frac{1}{4} + \frac{3}{5}$

7)  $\frac{5}{6} + \frac{2}{3}$

8)  $\frac{3}{8} - \frac{1}{5}$

9)  $\frac{9}{10} - \frac{3}{5}$

10)  $\frac{5}{8} + \frac{1}{6}$

**ASSIGNMENT DUE FRIDAY, OCTOBER 7, 2016**

## Unit 1, Chapter 4 – Rational Numbers

Evaluate and simplify the following. Show all work.

1)  $\frac{3}{4} \times \frac{2}{7}$

2)  $\frac{3}{8} \times \frac{4}{9}$

3)  $\frac{2}{7} \times \frac{3}{10}$

4)  $\frac{5}{6} \times \frac{4}{15}$

5)  $\frac{16}{3} \times \frac{1}{12}$

6)  $\frac{5}{9} \times \frac{3}{10}$

7)  $\frac{6}{5} \times \frac{2}{15}$

8) Of the students in the band,  $\frac{1}{2}$  play a brass instrument. Of the students who play a brass instrument,  $\frac{4}{5}$  play the trumpet. What fraction of the students in the band play the trumpet?

9) You are a detective interviewing witnesses. One witness says that she saw ten people in the room and three-quarters of them were wearing blue hats. Does this response make sense? Why or why not?

10) After thanksgiving, there is  $\frac{3}{5}$  of a pumpkin pie left. Your uncle wants to take some home with him and puts half of the remaining pie in a plastic container. What fraction of the original pie did he take home?