

Name: _____ Period: _____

Week 9 Homework Packet – 7th Grade Math Honors

ASSIGNMENT DUE TUESDAY, OCTOBER 4, 2016

Unit 2, Chapter 3 - Rational Numbers

SCORE
/4

WEEK SCORE
/12

Stamp

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?

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7th Grade Math Honors

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ASSIGNMENT DUE WED/THU, OCTOBER 5/6, 2016

Unit 2, Chapter 3 - Rational Numbers

Evaluate and simplify the following. Show all work.

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

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

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

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

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

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

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

8) A class is making pillow cases. Each pillow case requires $\frac{3}{4}$ of a yard of fabric to make. If the teacher has $13\frac{1}{2}$ yards of fabric available. How many pillow cases can the class make?

9) A jar of peanut butter contains $1\frac{1}{2}$ cups of peanut butter. If one serving of peanut butter is $\frac{1}{8}$ of a cup, how many servings are in one jar?

10) A book shelf is 25 inches long. If each book is $\frac{5}{8}$ of an inch wide, how many will fit on the shelf?

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7th Grade Math Honors

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ASSIGNMENT DUE FRIDAY, OCTOBER 7, 2016

Unit 2, Chapter 3 - 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) $\frac{5}{8} + \frac{1}{6}$