

Name: _____ Period: _____

Week 8 Homework Packet – 7th Grade Math Honors

ASSIGNMENT DUE TUESDAY, SEPTEMBER 27, 2016

Unit 2, Chapter 3 - Rational Numbers

Use some of the methods that you learned today working in groups to find which of the two fractions is larger. Show your work.

1) $\frac{3}{4}$ and $\frac{2}{3}$

2) $\frac{5}{16}$ and $\frac{1}{3}$

3) $\frac{7}{8}$ and $\frac{11}{12}$

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

5) $\frac{3}{8}$ and $\frac{7}{20}$

6) $\frac{3}{5}$ and $\frac{2}{3}$

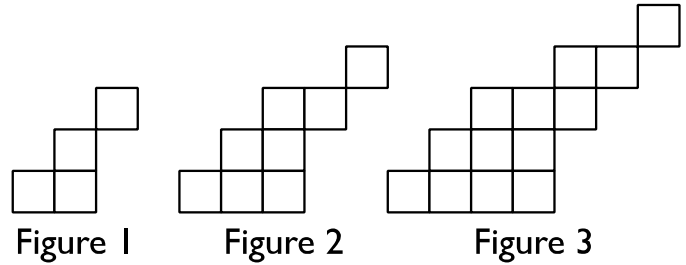
SCORE
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WEEK SCORE
/12

Stamp

Think Mathematically!

8) Look at the sequence of patterns below. Come up with three different ways that you could describe in words how the pattern changes as you increase the figure number by 1.



9) In the space below, draw what you believe Figure 6 should look like.

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ASSIGNMENT DUE WED/THU, SEPTEMBER 28/29, 2016

Unit 2, Chapter 3 - Rational Numbers

For each problem below, add or subtract the fractions. Simplify your answers.

1) $\frac{5}{16} + \frac{7}{16}$

2) $\frac{2}{3} + \frac{1}{3}$

3) $\frac{6}{11} + \frac{3}{11}$

4) $\frac{5}{13} - \frac{8}{13}$

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

6) $\frac{5}{16} - \frac{7}{16}$

7) $\frac{4}{9} + \frac{14}{9}$

8) $\frac{13}{16} - \frac{5}{16}$

There is a joke that goes as follows:

Someone went to a pizza parlor and ordered a medium pizza. The person behind the counter asked if the customer wanted it cut into 8 or 12 slices. The customer replied, "cut it into 8 slices. I don't think I could eat 12 slices of pizza!"

9) Explain in your own words what the joke is supposed to mean.

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ASSIGNMENT DUE FRIDAY, SEPTEMBER 30, 2016

Unit 2, Chapter 3 - Rational Numbers

For each problem below, if the number given to you is a fraction, write it as a decimal. If the number given to you is a decimal, write it as a fraction.

1) $0.\overline{53}$

2) $\frac{327}{1000}$

3) 0.1591

4) $0.\overline{9}$

5) $\frac{17}{9999}$

6) $0.\overline{033}$

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

8) $\frac{194}{10000}$

9) 2.043

10) $1\frac{5}{9}$

11) You and some friends order pizza. One of the pizzas is cut into eight slices and you eat three of the eight slices.

a) What fraction of the pizza have you eaten?

b) Use long division to express your answer from part a as a decimal. Show your work below. Work must be shown to receive a stamp.

12) The value of π is 3.1415926... It is often approximated with the number $3\frac{1}{7}$. Use long division to find the value of the approximation as a decimal. Show your work below.