Math 3. Homework 26

Review - Fractions comparison.

RULE # 1: If the denominators are the same, the fraction with the bigger numerator is bigger

RULE # 2: If numerators are the same, the fractions with the bigger denominator is smaller.

1. Which is bigger?

$\frac{1}{2} \cdots \frac{1}{3}$ $\frac{1}{4} \cdots \frac{3}{4}$ $\frac{5}{9} \cdots \frac{5}{11}$ $\frac{3}{27} \cdots \frac{7}{27}$

Review - Simplifying fractions

To simplify the fractions means to write down an equivalent fraction that has the smallest possible denominator.

2. Simplify the following fractions:

$\frac{4}{8} =$ $\frac{6}{15} =$ $\frac{4}{12} =$ $\frac{3}{27} =$

3. Fill in the missing numbers to make each pair of fractions equivalent (HINT: draw a box diagram with shaded parts to represent each fraction):

$\frac{1}{2} = \frac{\quad}{6}$ $\frac{2}{3} = \frac{\quad}{6}$ $\frac{1}{4} = \frac{\quad}{12}$

$\frac{1}{10} = \frac{\quad}{30}$ $\frac{3}{5} = \frac{1}{15}$ $\frac{3}{4} = \frac{\quad}{36}$

4. Milan takes $40 on shopping trip. He spends only $\frac{1}{4}$ of his money. How much money does he spend? _____

Review - Adding fractions

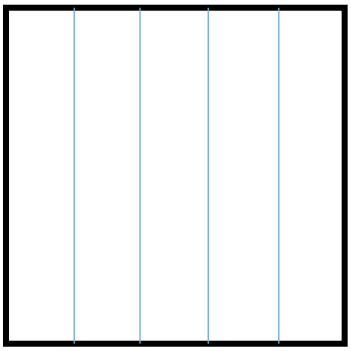
RULE # 1: When adding fractions with the same denominator, just add the numbers on the top and keep the same denominator

RULE # 2: When adding fractions with different denominators, convert one or both fractions to equivalent fractions with the same denominator and then add them.

5. Find the following sums:

$\frac{1}{2} + \frac{1}{3} =$ $\frac{1}{4} + \frac{3}{4} =$ $\frac{5}{6} + \frac{5}{12} =$ $\frac{3}{27} + \frac{7}{27} =$

6. A square is divided into 5 identical rectangles. The perimeter of each rectangle is 10 centimeters. Find the area of the square. A = _____



7. Long division.

2,889 ÷ 9 = 4,095 ÷ 9 =

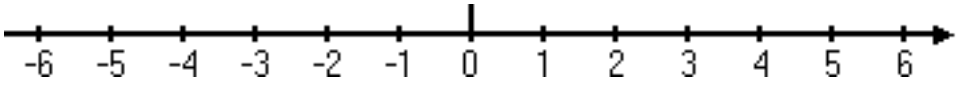
8. Write down the next five terms (use a number line if necessary):

a) -1, -3, -5, -7, …

b) 5, 0, -5, -10, ….

c) 11, 5, -1, -7, …

d) -11, -8, -5, …



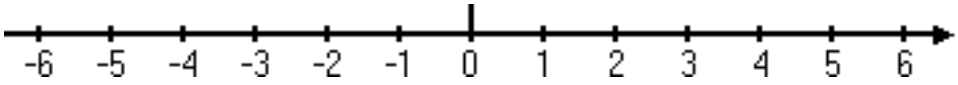
9. The temperature on Monday morning is -5˚C. The temperature on Friday morning is 1˚C. How much warmer is it on Friday morning than on Monday morning?

_____

10. Answer the questions, using a number line:

a) What number is 2 more than -3?

b) What number is 5 less than -3?



11. Less than and greater than - compare numbers, using <, >, =:

a) -4 …. -1

b) -2 … 2

c) -10 … -1

12. ## Challenge yourself

A fence is installed around a rectangular piece of land that is 10 meters long and 4 meters wide. Posts supporting the fence are set 2 meters apart. How many posts have to be used in order to fence the land of this size?

Hint: Using a ruler make a drawing so that 1 meter is replaced by 1 cm and mark the position of each post with the dot.