Name: Weekly Math Homework #5 Due: 10/26/15

Wednesday

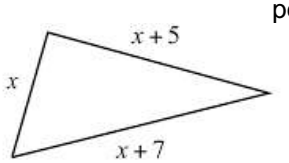
1) The table shows the depth of a submarine over a 2 hour period. Did the sub go up or down? By how much?

Time	10am	12pm
Depth	410 ft	289 ft

2) Divide:

$$\frac{-53.72}{-6}$$

3) Write the simplified expression to represent the perimeter.



4. Solve the equation:

$$\frac{x}{4} - 16 = -32$$

5. Write the fraction as a decimal. (hint: divide top by bottom)

$$\frac{3}{8} =$$

6. Subtract.

1.453 – 3.041

7. Solve:

$$12x - 14 = 16x$$

8. Factor. Prove your answer by distributing to check solution.

24xyz – 8xz + 12yz

Thursday

9. Simplify:

$$15\left(\frac{2}{5} + \frac{1}{3}\right)$$

10. Jon painted $\frac{4}{5}$ of his house the 1st day and $\frac{1}{10}$ of the house the next day. What fraction of the house is left to paint?

11. What is the simplified area of rectangle if its width is 4 cm and its length is (m + 3) cm?

12. Solve the equation:

$$3(x - 5) = 45$$

13. Write the fraction as a repeating decimal.

$$\frac{1}{9}$$

14. A rectangle has a area of (12x + 8y). If one side of the rectangle is 4, write an expression of the other side.

15. Solve:

$$\frac{x}{3} + 6 = -6$$

16. Solve:

$$-5p + 8p = -21$$

Monday	Tuesday
17. Jon and Jim are cutting a log. Jon cut $\frac{1}{5}$ of the log on one end while Jim cut $\frac{2}{9}$ of the log on the other side. How much of the log is left?	25. Simplify $29 - 4.37 + (-5.68)$
18. Multiply: $\left(-\frac{3}{10}\right)\left(-\frac{5}{12}\right)$	26. A recipe needs $\frac{5}{4}$ of a cup of sugar. You are going to triple the recipe. How much sugar do you need?
19. Simplify. -3(m – 6) + 5(-2m + 5)	27. Evaluate the expression. $(\frac{2}{5} + 1)\times(2 - (-3))$
20. Solve the equation: $-88 = 5y - 13$	28. Jon's teacher wants to buy giant cookies for the entire class. If cookies cost $2.50 each, write an equation that shows how many can be bought with $40 and solve.
21. Expand the following: $\frac{1}{6}(18x - 24)$	29. Solve. 2(m – 3) = -6
22. Add. -1.543 + 0.789	30. Simplifying the following expression: $2x + 5(2x - 7y + 3)$
23. Solve: $3x + 5 - 13x = 25$	31. Solve: $2x + 5x - 11 = -46$
24. Write an example illustrating the Commutative Property.	32. Create an expression where the Distributive Property would be used to simplify.

Jon and Jim are cutting a log. Jon cut $\frac{1}{5}$ of the log on one end while Jim cut $\frac{2}{9}$ of the log on the other side. How much of the log is left? $\frac{26}{45}$	Simplify $29 - 4.37 + (-5.68)$ 18.95	The table shows the depth of a submarine over a 2 hour period. Did the sub go up or down? By how much? **Time** | **10am** | **12pm** **Depth** | 410 ft | 289ft Up by 121 feet	Simplify: $15\left(\frac{2}{5} + 1\frac{1}{3}\right) + 3$ 29
Multiply: $\left(-\frac{3}{10}\right)\left(-\frac{5}{12}\right)$ $\frac{1}{8}$	A recipe needs $\frac{5}{4}$ of a cup of sugar. You are going to triple the recipe. How much sugar do you need? $3\frac{3}{4}$ cup	Divide: $\frac{-53.72}{-6}$ 8.953	Jon has painted $\frac{4}{5}$ of his house. The next day he painted $\frac{2}{3}$ of what he had left. What fraction of the house is left to paint? $\frac{1}{15}$
Find the mean (average) of the data set below? $\frac{2}{4}, \frac{18}{5}, \frac{28}{10}, \frac{5}{20}$ 1.7875	Evaluate the expression. $(\frac{2}{5} + 11) \times (10 - (-3))$ 148.2	Find the surface area of cube with side length $6\frac{1}{2}$? 253.5	Find the median (middle) of the data set below? $-\frac{12}{4}, \frac{18}{5}, -2.5, \frac{1}{5}, 10$ $\frac{1}{5}$
Solve the equation: $-88 = 5y - 13$ y = –15	Jon's teacher wants to buy giant cookies for the entire class. If cookies cost \$2.40 each, write an equation that shows how many can be bought with \$40. 40 = 2.40x	Solve the equation: $\frac{x}{4} - 16 = (-32)$ x = –64	Solve the equation: $-3(x - 5) = 45$ x = –10
Expand the following: $\frac{1}{6}(18x - 24)$ 3x – 4	Which property is demonstrated by the following statement? commutative 16 + (22 + a) = 16 + (a + 22)	Write two expressions that have a GCF of 8xy. Varies…16xy, 24xy	Find the GCF of 18xy and 32xyz. 2xy
Find the difference between (x + 5) and (2x + 3) –x + 2	Simplifying the following expression: $2x - 5(2x - 7y + 3) + (-8)$ –8x + 35y – 23	A girl scout has (5x-12) boxes of cookies and sells (3x+18) of them. Write an expression to represent the amount of boxes she has left. 2x – 30	A rectangle has a perimeter of (12x + 8y). If one side of the rectangle is (4x – 2y), write an expression of the other side. 2x + 6y
Solve: $3x + 5 - 13x = 25$ x = –2	Solve: $2x + 5x - 11 = -46$ x = –5	Solve: $12x - 14 = 16x$ x = $-\frac{7}{2}$	Solve: $\frac{x}{3} + 6 - 2x = -6$ x = $\frac{36}{5}$

Solve: $8 + 8b + 2b = 2b + 16$ b = 1	Solve: $2m - 3 - 5 = -m + 10$ m = 6	Solve: $\frac{k}{5} + 3 - 3k = -6k$ x = $-\frac{15}{16}$	Solve: $-5p - 8p = -6 - 7p$ x = 1