Equations Quiz Math 1

* This quiz will be **calculator inactive**!!
* Solve multi-step equations
* Ordering rational and irrational numbers from least to greatest
* Estimating a square root to the nearest hundredth using a number line
* Classifying subsets of a number
* Simplifying numbers that are repeating decimals
* Equation word problems
* Consecutive numbers word problem

**Solve:**

1. $\frac{2p}{3}+ \frac{p}{4}- \frac{1}{6}= \frac{7}{2}$ 2. 12(y + 5) = 13y + 2 3. -2(5 + 6m) + 16 = -90 4. 8(4u – 1) – 12u = 11(2u – 6)

5. $\frac{17-m}{4}= -10$ 6. $4\left(2r-8\right)= \frac{1}{7}(49r+70)$

7. $\frac{1}{4}- \frac{2}{3}y= \frac{3}{4}- \frac{1}{3}y$ 8. 11 – 2(3m – 10) = 5(4 – m)

9. Order the following from least to greatest: $-3, \sqrt{31}, \sqrt{11}, 5.5, -\frac{60}{11}$

10. Estimate $\sqrt{75}$ to the nearest hundredth

11. Name the subsets of real numbers that describe $\sqrt{50}$

12. Name the subsets of real numbers that describe 80

13. Simplify: $0.\overbar{5}+ \frac{2}{3}$

14. Simplify: $0.\overbar{5} ∙ \frac{2}{3}$

15. Simplify: $0.\overbar{5} ÷ \frac{2}{3}$

For each word problem: Define the variable (*let statement)*, write and solve an equation, and then write your answer in a complete sentence.

16. Three less than 11 times a number is the same as the

 number decreased by 13. Find the number.

17. One more than 3 times a number is the same as 5 times

 the number, decreased by 15. Find the number.

18. The price of a brick today is 49¢. This is 3¢ less than 4

 times the price 20 years ago. What was the price 20

 years ago?

19. The Backpacking Club is having some posters printed.

 The printer charges $180 plus $2.50 per poster. How

 many posters can be printed for $1000?

20. Find three consecutive odd integers such that the sum of

 the smallest and 4 times the largest is 61.