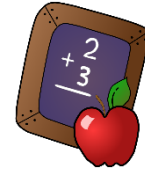


Name:

UNIT 1 DAY 19 - HOMEWORK REVIEW FOR UNIT 1 TEST



1.

| | Counting | Whole | Integer | Rational | Irrational |
|------|----------|-------|---------|----------|------------|
| 4.04 | | | | ✓ | |
| -12 | | | ✓ | ✓ | |
| 1/2 | | | | ✓ | |

PEMDAS

2. Simplify: $\frac{5+6 \times 2}{16 \div 4 - 3} = \frac{5+12}{4-3} = \frac{17}{1} = \boxed{17}$

3. Solve for m

$$23 = 5m + 2(m+1)$$

$$23 = \boxed{5m} + \boxed{2m} + 2$$

$$23 = 7m + 2$$

$$\frac{21}{7} = \frac{7m}{7}$$

$$\boxed{m=3}$$

4. Solve for x.

$$\boxed{10} - 2x - \boxed{8} = 8 - 4x$$

$$\begin{array}{r} 2 - 2x = 8 - 4x \\ +4x \quad +4x \\ \hline 2 + 2x = 8 \\ -2 \quad -2 \\ \hline 2x = 6 \\ \frac{2x}{2} = \frac{6}{2} \quad \boxed{x=3} \end{array}$$

5. Solve for x.

$$3(2x - 3) = 6x + 17$$

$$\begin{array}{r} 6x - 9 = 6x + 17 \\ -6x \quad -6x \\ \hline -9 = 17 \\ \phi \end{array}$$

6. Solve for x.

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

$$3x = -6(x-3)$$

$$3x = -6x + 18$$

$$9x = 18$$

$$\boxed{x=2}$$

7. Solve for x.

$$\frac{21}{63} = \frac{x}{9}$$

$$\div 7$$

$$\boxed{x=3}$$

8. What number is 77% of 92?

$$\frac{x}{92} = \frac{77}{100}$$

$$\frac{100x}{100} = \frac{7084}{100}$$

$$\boxed{x = 70.84}$$

9. 58 is what percent of 176?

$$\frac{58}{176} = \frac{x}{100}$$

$$5800 = 176x$$

$$\boxed{x = 32.95}$$

10. Write in terms of y.

$$\begin{array}{r} 15x = 5y + 25 \\ -25 \quad -25 \\ \hline \end{array}$$

$$\frac{15x-25}{5} = \frac{5y}{5}$$

$$3x - 5 = y \quad \text{or} \quad \boxed{y = 3x - 5}$$

11. Write in terms of x.

$$\begin{array}{r} 21y - 7x = 14 \\ -21y \quad -21y \\ \hline \end{array}$$

$$\frac{-7x}{-7} = \frac{-21y+14}{-7}$$

$$\boxed{x = 3y - 2}$$