**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Equations All Types QuizM**

**M.P. 4 Model with math for full credit!!!**

**1.** $\frac{1}{2}x$ – 8 + $\frac{2}{6}x$ = 7 2**.** $ \frac{x}{5}$– 12 = -8 3**.** $\frac{2}{3}x$ + -4 = 10

**4.** 6x – 4x + -5 – 5 = -30 **5.** - 2(4x – 3) = 1 **6.** 3x + -3(2x + 4) = -6

**7.**  6(-2x – 3) + 7 = -8 **8.**  8x – 4= 5x – 34 **9.**  -2x + 12 = 3x – 18

**10.** The side lengths of a triangle are:

Side 1: 5x + 2 Side 2: 3(x + 6) Side 3: 4x + 8 – 2

If the perimeter of the triangle is 86ft. How long is the shortest side?

**11.** -x – 6 + 3 = -2x – 5 **12.**  -5x + 9x – 18 + 12= 2x – 8 **13.** -4x – 5x + 7 – 2x = -15

**14.** -5x + 2(x + 5) = x – 18 **15.** 5(-3x + 4) + 6 = -12 + -7 **16.** –(-5x – 3) = 3x – 3

**17.** The length of a rectangle is 4(x + 2). The width of a rectangle is 2(3x + 1). If the perimeter of the rectangle is 200m what is the value of the width?