

Name: _____
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Henderson - Math 8

Homework for Week 1

Monday: HW#1A

Translate the following verbal expressions into a mathematical sentence.

- 1) Three more than a number, x. $x + 3$
- 2) Five less than twice a number, r. $2r - 5$
- 3) The quotient of a number, w, and three. $\frac{w}{3}$ $w \div 3$
- 4) The product of 2 and the sum of the (quantity) x and six. $2(x + 6)$

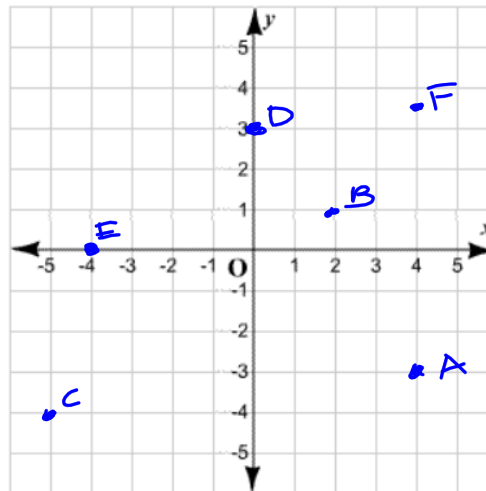
Determine the quadrant in which each point lies:

- 5) (6, -30) IV
- 6) (-1, 4) II
- 7) (-324, -578) III
- 8) ($\frac{1}{2}$, $\frac{3}{4}$) I

Tuesday: HW#1B

Graph the coordinates on the grid below and label it with the correct letter:

- 9) **A** (4, -3)
- 10) **B** (2, 1)
- 11) **C** (-5, -4)
- 12) **D** (0, 3)
- 13) **E** (-4, 0)
- 14) **F** (4, 3.5)



Wednesday: HW#1C

Solve the following equations:

15.) $4x - 6 = 22$

$$\begin{array}{r} 4x - 6 = 22 \\ +6 \quad +6 \\ \hline 4x = 28 \\ \frac{4x}{4} = \frac{28}{4} \\ \hline x = 7 \end{array}$$

16.) $-3x + 8 = 14$

$$\begin{array}{r} -3x + 8 = 14 \\ -8 \quad -8 \\ \hline -3x = 6 \\ \frac{-3x}{-3} = \frac{6}{-3} \\ \hline x = -2 \end{array}$$

17.) $4 + 2x = 40$

$$\begin{array}{r} 4 + 2x = 40 \\ -4 \quad -4 \\ \hline 2x = 36 \\ \frac{2x}{2} = \frac{36}{2} \\ \hline x = 18 \end{array}$$

18.) $2(x + 5) = 14$

$$\begin{array}{r} 2(x + 5) = 14 \\ 2x + 10 = 14 \\ -10 \quad -10 \\ \hline 2x = 4 \\ \frac{2x}{2} = \frac{4}{2} \\ \hline x = 2 \end{array}$$

19.) $6 - 5x = 36$

$$\begin{array}{r} 6 - 5x = 36 \\ -6 \quad -6 \\ \hline -5x = 30 \\ \frac{-5x}{-5} = \frac{30}{-5} \\ \hline x = -6 \end{array}$$

20.) $9(x + 1) = -36$

$$\begin{array}{r} 9(x + 1) = -36 \\ 9x + 9 = -36 \\ -9 \quad -9 \\ \hline 9x = -45 \\ \frac{9x}{9} = \frac{-45}{9} \\ \hline x = -5 \end{array}$$

Thursday: HW#1D

21) Construct and **label** a linear graph from the data table:

line

Number of Oranges (x)	Cost (y)
5	0.50
10	1.00
25	2.50
30	3.00

Cost

