# 11/14/2024 – Rational Numbers and the Coordinate Plane

***Review of Unit 5 for Grade 6 (6R and 6A) – Fun theme: Patriotic***

*Questions to follow along with show.* Watch: Math Homework Hotline

1) What is the opposite of the number given and state a possible scenario for it? (MA.6.NSO.1.2)

$$-5\frac{1}{4}$$

2) Determine if each expression is equal to 8 or -8. (MA.6.NSO.1.3)

| | $8$ | $-8$ |
|---|---|---|
| $\lvert -8 \rvert$ | | |
| $-\lvert 8 \rvert$ | | |
| $-\lvert -8 \rvert$ | | |

3) Rocky Peak Mountain has some very tough hiking trails. The Zig Zagger trail is especially hard because it has a lot of steep climbs and descents. The table shows the elevation changes over the trail's first four miles. Which mile has the greatest elevation change? (MA.6.NSO.1.4)

| | |
|---|---|
| $Mile\ 1$ | $804$ |
| $Mile\ 2$ | $-436$ |
| $Mile\ 3$ | $798$ |
| $Mile\ 4$ | $-924$ |

4) Which statement is not true? (MA.6.NSO.1.1)

$$-4 > -5$$

$$-5 < -4$$

$$-5 > -4$$

$-4$ is to the right of $-5$ on a number line

5) Put –1.125, $\frac{-11}{4}$, –4.65, -0.1% and $\frac{4}{5}$ in order from least to greatest. (MA.6.NSO.1.1)

6) The point $(-4, 2)$ is in Quadrant ____ and the point $(5, 0)$ is on the ___ axis. (MA.6.GR.1.1)

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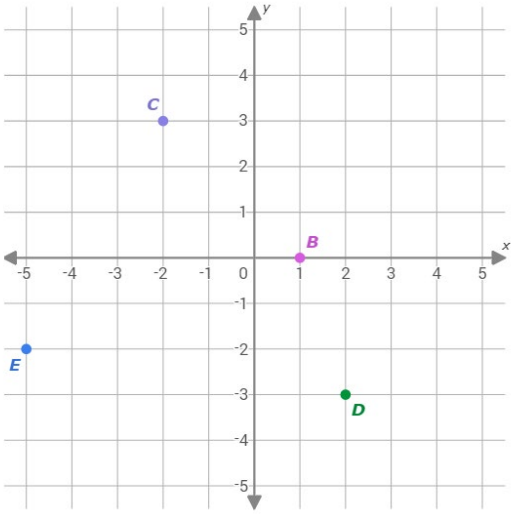
7) Determine the x and y coordinates of each ordered pair. (MA.6.GR.1.1)




8) The line of reflection for the points $(-2, 4)$ and $(2, 4)$ is the ___ axis. (MA.6.GR.1.1)

9) To start drawing a star, Paul put a dot at $Point\ A\ (-5\ , 3)$ and then a second dot at $Point\ B\ (2, 3)$. How far apart are the two dots? (MA.6.GR.1.2)

10) The Washington Mall looks like a rectangle on a map. Find the perimeter and area of the rectangle with these vertices:

$$(-4, 4), (3, 4), (3, 1), and\ (-4, 1)$$

(MA.6.GR.1.3)