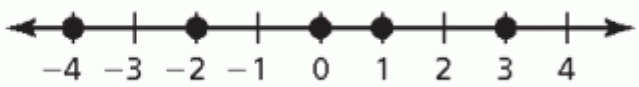
ANSWER PRESENTATION TOOL

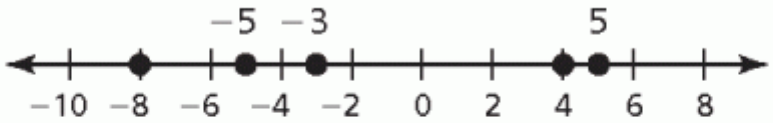
Green - Student Edition 6 Chapter Tes 1-21 ALL EVEN ODD Show Solu

1.



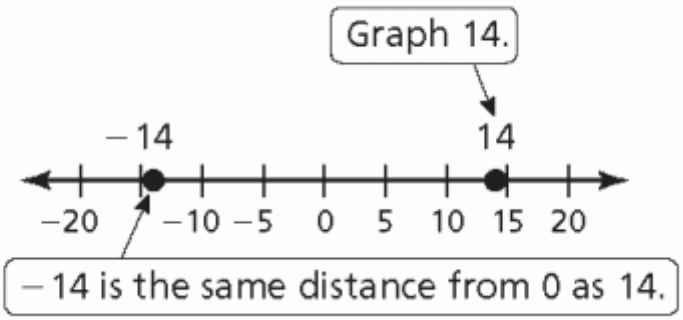
The numbers in order from least to greatest are $-4, -2, 0, 1, 3$.

2.

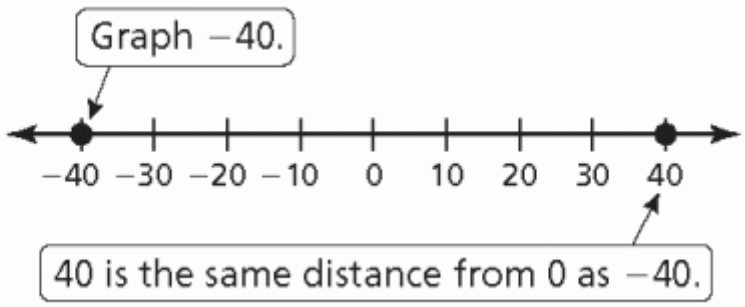


The numbers in order from least to greatest are $-8, -5, -3, 4, 5$.

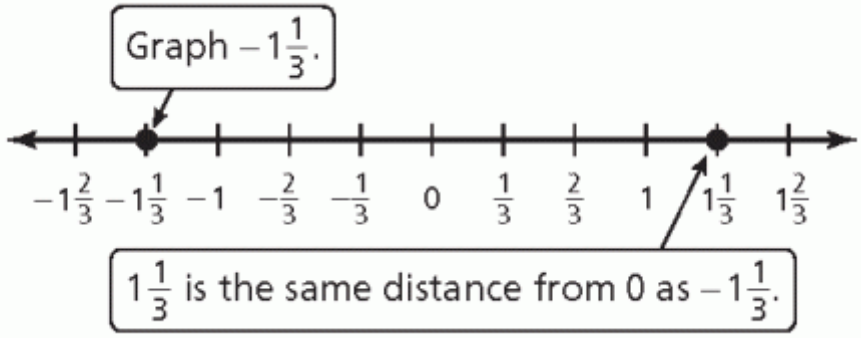
3.



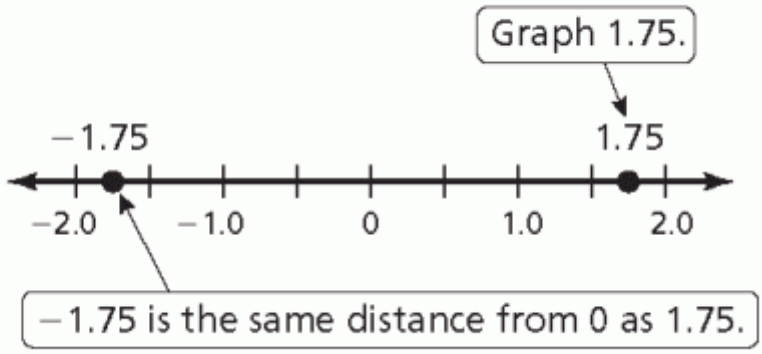
4.


Graph −40.
−40 −30 −20 −10 0 10 20 30 40
40 is the same distance from 0 as −40.

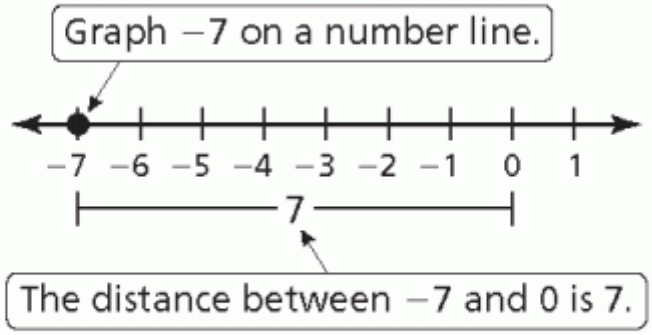
5.


Graph $-1\frac{1}{3}$.
$-1\frac{2}{3}$ $-1\frac{1}{3}$ −1 $-\frac{2}{3}$ $-\frac{1}{3}$ 0 $\frac{1}{3}$ $\frac{2}{3}$ 1 $1\frac{1}{3}$ $1\frac{2}{3}$
$1\frac{1}{3}$ is the same distance from 0 as $-1\frac{1}{3}$.

6.

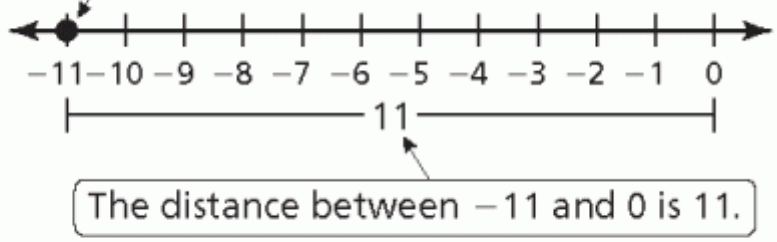

Graph 1.75.
−1.75
1.75
−2.0 −1.0 0 1.0 2.0
−1.75 is the same distance from 0 as 1.75.

7.


Graph −7 on a number line.
−7 −6 −5 −4 −3 −2 −1 0 1
7
The distance between −7 and 0 is 7.

So, $|-7| = 7$.

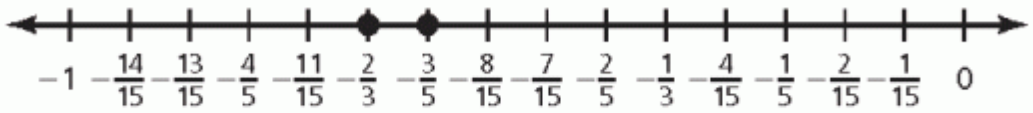
8. Graph -11 on a number line.



The distance between -11 and 0 is 11.

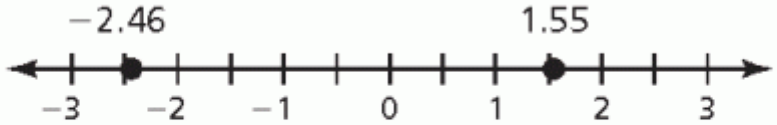
So, $|-11| = 11$.

9.



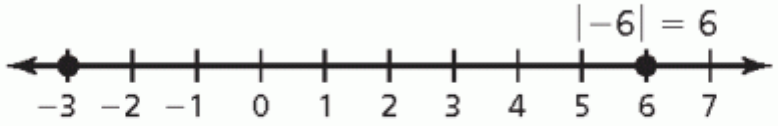
$-\frac{2}{3}$ is to the left of $-\frac{3}{5}$. So, $-\frac{2}{3} < -\frac{3}{5}$.

10.



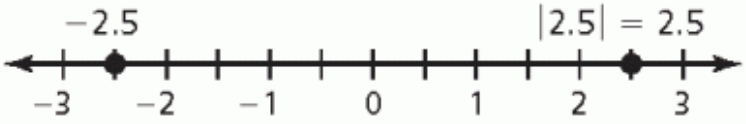
1.55 is to the right of -2.46. So, $1.55 > -2.46$.

11.



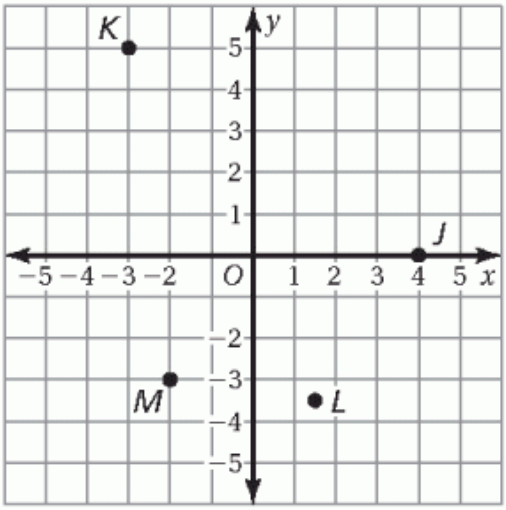
$|-6| = 6$ is to the right of -3. So, $|-6| > -3$.

12.

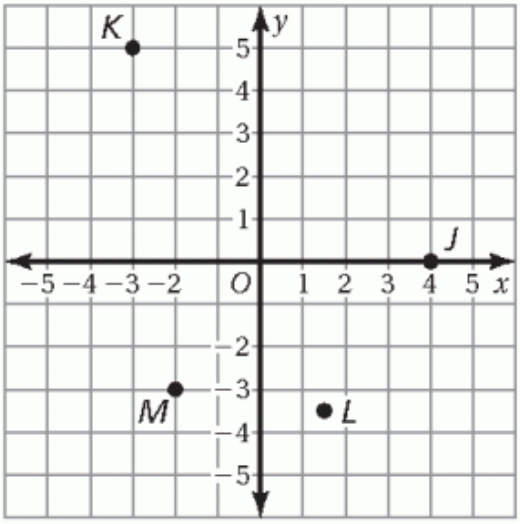


-2.5 is to the left of $|2.5| = 2.5$. So, $-2.5 < |2.5|$.

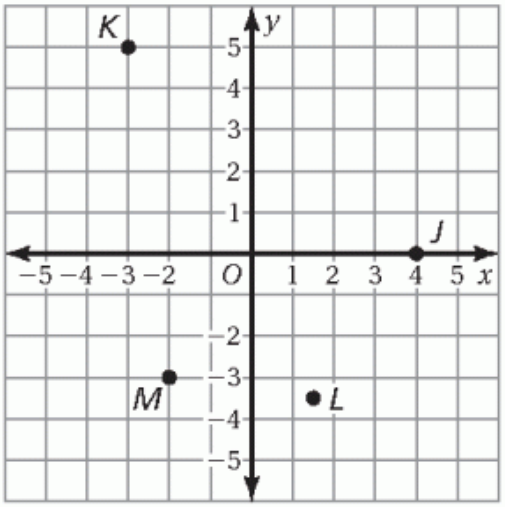
13. To plot $J(4, 0)$, start at the origin and move 4 units to the right. The point is on the x-axis.



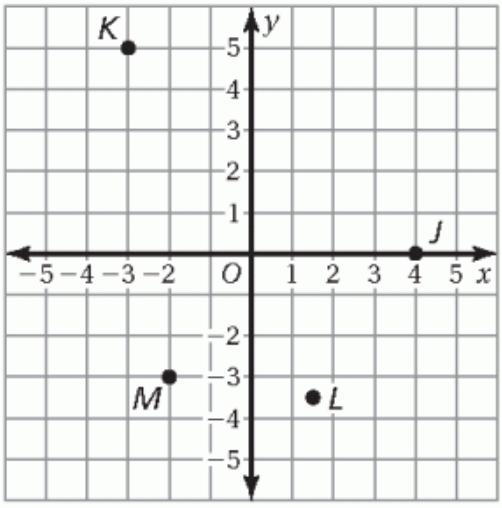
14. To plot $K(-3, 5)$, start at the origin and move 3 units to the left and 5 units up. The point is in Quadrant II.



15. To plot $L(1.5, -3.5)$, start at the origin and move 1.5 units to the right and 3.5 units down. The point is in Quadrant IV.



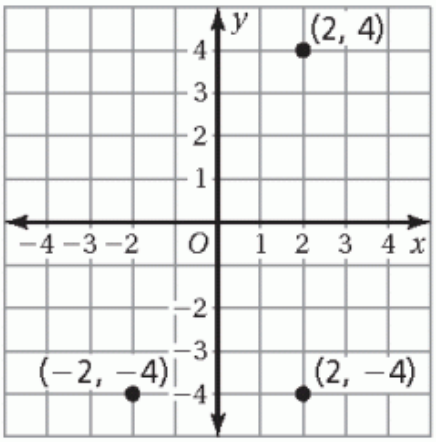
16. To plot $M(-2, -3)$, start at the origin and move 2 units to the left and 3 units down. The point is in Quadrant III.



17. First, reflect $(2, 4)$ in the x-axis. Use the same x-coordinate, 2, and take the opposite of the y-coordinate. The opposite of 4 is -4. The point $(2, 4)$ reflected in the x-axis is $(2, -4)$.

Next, reflect $(2, -4)$ in the y-axis. Use the same y-coordinate, -4, and take the opposite of the x-coordinate. The opposite of 2 is -2. The point $(2, -4)$ reflected in the y-axis is $(-2, -4)$.

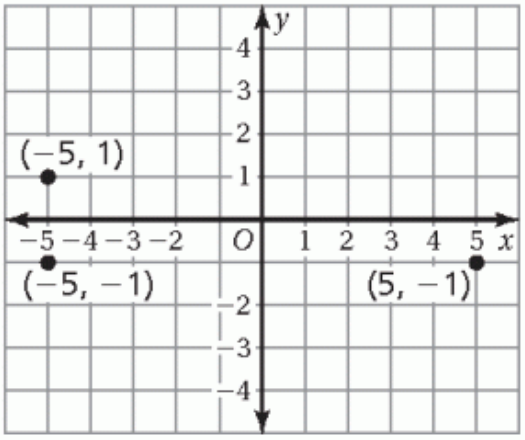
So, $(2, 4)$ reflected in the x-axis followed by the y-axis is $(-2, -4)$.



18. First, reflect $(-5, 1)$ in the x-axis. Use the same x-coordinate, -5, and take the opposite of the y-coordinate. The opposite of 1 is -1. The point $(-5, 1)$ reflected in the x-axis is $(-5, -1)$.

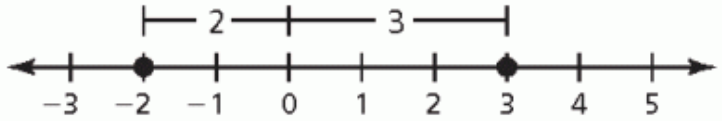
Next, reflect $(-5, -1)$ in the y-axis. Use the same y-coordinate, -1, and take the opposite of the x-coordinate. The opposite of -5 is 5. The point $(-5, -1)$ reflected in the y-axis is $(5, -1)$.

So, $(-5, 1)$ reflected in the x-axis followed by the y-axis is $(5, -1)$.



19. a. An integer for the position of the diver on the springboard is 3. An integer for the position of the diver in the pool is -2.

b.

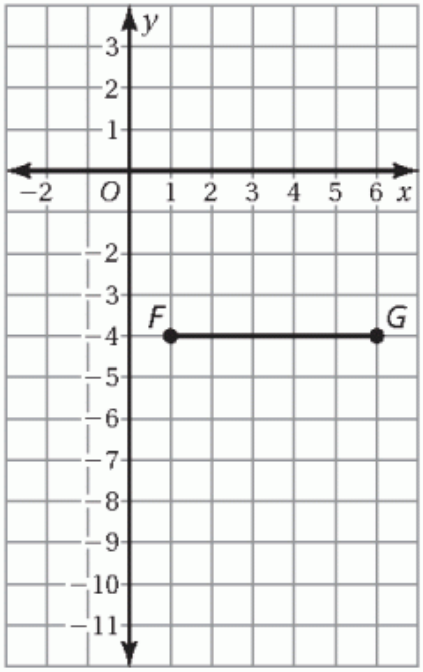


The distance between 3 and 0 is 3. So, $|3| = 3$.

The distance between -2 and 0 is 2. So, $|-2| = 2$.

c. The integer 3 is farthest from 0 on the number line. So, the diver on the springboard is farther from the surface of the pool.

20. *Sample answer:* Plot the points $F(1, -4)$ and $G(6, -4)$.



From the graph, the length of the segment from F to G is 5 units. Let the segment from F to G be the base of the triangle. Now solve for the height.

$$A = \frac{1}{2}bh$$

$$20 = \frac{1}{2}(5)h$$

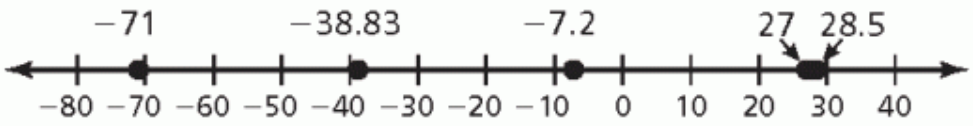
$$20 = \frac{5}{2}h$$

$$\frac{2}{5} \cdot 20 = \frac{2}{5} \cdot \frac{5}{2}h$$

$$8 = h$$

So, the height is 8 units. To determine an ordered pair for the third vertex, move 8 units up from point F. So, a possible ordered pair for the third point is $(1, 4)$. You can also move 8 units down from point F. So, a second possible ordered pair is $(1, -12)$.

21.



Mercury has a higher melting point than Radon and a lower melting point than Bromine, Cesium, and Francium.