

Grade 6 - Integers and Rational Numbers on the Number Line - Test Answer Key

Common Core 6.NS.C.5, 6.NS.C.6a, 6.NS.C.6c · maths-pdf.fr/en/

Use this key to score the integers and rational numbers test out of 20 points. Each solution is fully worked, and the scoring line explains how to award each point and partial credit.

Grade 6 · Common Core State Standards: **6.NS.C.5, 6.NS.C.6a, 6.NS.C.6c**

Question 1 - Integers in context [2 pts]

(a) -300 . (b) $+15$ (or 15).

Scoring: 1 point for each integer.

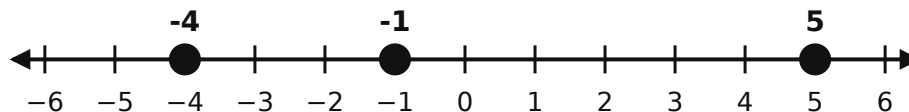
Question 2 - Opposites [2 pts]

(a) 15 . (b) $-\frac{2}{5}$. (c) The opposite of -6 is 6 , so $-(-6)=6$.

Scoring: 1 point for (a) and (b) together; 1 point for (c).

Question 3 - Name the points [2 pts]

M is -4 , N is -1 , and P is 5 .

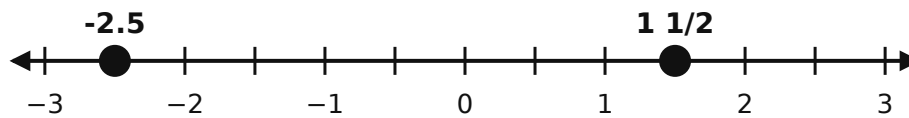


Labeled values.

Scoring: 1 point for two correct; 2 points for all three.

Question 4 - Plot rational numbers [2 pts]

-2.5 is halfway between -3 and -2 ; $1\frac{1}{2}=1.5$.



Plotted points.

Scoring: 1 point for each correctly placed point.

Question 5 - Vertical number line [2 pts]

H is 6° and K is about -3° .

Scoring: 1 point for H; 1 point for K (accept -3 or between -2 and -4).

Question 6 - Meaning of zero [2 pts]

Gain: $+7$. Loss: -4 .

0 yards means no gain or loss.

Scoring: 1 point for the integers; 1 point for the meaning of 0.

Question 7 - Which is farther left [2 pts]

On a number line, numbers farther left are less. -9 is 9 units left of 0 and -4 is 4 units left of 0.

-9 is farther left.

Scoring: 1 point for the answer; 1 point for the explanation.

Question 8 - Opposites on a line [3 pts]

(a) R is -5.5 and S is 5.5 .

(b) They are opposites, each 5.5 units from 0.

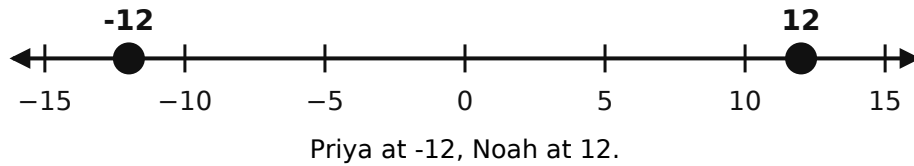
(c) Sample: 5.5 feet below sea level.

Scoring: 1 point for each part.

Question 9 - Debt and savings [3 pts]

Priya: -12 . Noah: $+12$.

They are opposites, 12 units from 0.



Scoring: 1 point for the integers; 1 point for the relationship; 1 point for the plot.

Total
20 points