

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

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

Name: _____ Class: _____ Date: ____/____/____

This 45-minute test has 9 questions worth 20 points. It covers integers in context, opposites, plotting rational numbers, and vertical number lines (Common Core 6.NS.C.5 and 6.NS.C.6). Show your work.

About this test

- Grade: Grade 6
- Chapter: Integers and Rational Numbers on the Number Line
- Standards: 6.NS.C.5, 6.NS.C.6a, 6.NS.C.6c
- Time: 45 minutes
- Total: 20 points

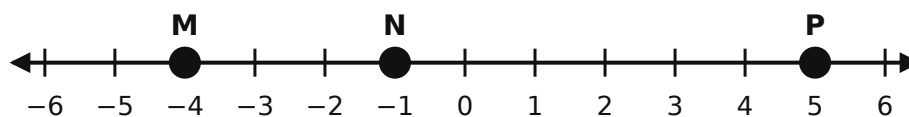
Question 1 - Integers in context [2 pts]

- A submarine is 300 feet below the surface.
- Jamal earns \$15 for mowing a lawn.

Question 2 - Opposites [2 pts]

- Find the opposite of -15 .
- Find the opposite of $\frac{2}{5}$.
- Find the value of $-(-6)$.

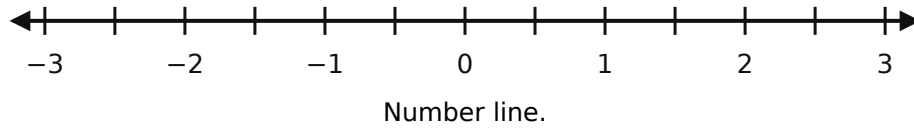
Question 3 - Name the points [2 pts]



Points M, N, and P.

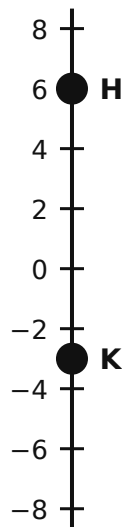
Write the integer shown by each point.

Question 4 - Plot rational numbers [2 pts]



Plot -2.5 and $1\frac{1}{2}$ on the number line.

Question 5 - Vertical number line [2 pts]



A thermometer in degrees Celsius.

Find the temperature at H. Then estimate the temperature at K.

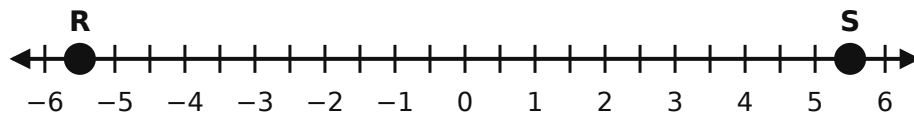
Question 6 - Meaning of zero [2 pts]

In a football game, a team gains 7 yards on one play and loses 4 yards on the next. Write an integer for each play and tell what 0 would mean.

Question 7 - Which is farther left [2 pts]

Decide which number is farther to the left on a number line: -4 or -9 . Explain.

Question 8 - Opposites on a line [3 pts]



Points R and S.

- Write the number shown by each point. (1 point)
- Explain how the two numbers are related. (1 point)
- Write a real-world situation for R. (1 point)

Question 9 - Debt and savings [3 pts]

Priya owes her brother \$12 (write an integer) and Noah has \$12 saved (write an integer). Explain how the two integers are related and plot both on a number line from -15 to 15 with scale 5.