

Integers and Rational Numbers: math test, Grade 6 – download the PDF

Suggested time: 45 minutes. Out of 20 points. Calculator allowed only when the problem says so.

1 Opposites and absolute values

/ 3 pts

- Give the opposite of -13 and of 6.4 .
- Find $|-18|$ and $|\frac{7}{2}|$.
- Which has the greater absolute value, -9 or 6 ? Which number is greater?

2 Ordering rational numbers

/ 4 pts

- Order from least to greatest: -2.4 , 1.8 , -3 , $-\frac{1}{2}$, 0 , $\frac{5}{4}$.
- Compare $-\frac{5}{6}$ and $-\frac{7}{8}$ and justify.

3 Temperatures in context

/ 3 pts

A freezer is set at -12°F and a refrigerator at 38°F .

- How many degrees warmer is the refrigerator?
- A cold room is at -5°F . Is it warmer or colder than the freezer?
- Overnight the outdoor temperature fell from 9°F to -4°F . By how much did it fall?

4 Points and a rectangle

/ 4 pts

Points: $E(-3, 4)$, $F(5, 4)$, $G(5, -2)$, $H(-6, -3)$.

- Name the quadrant of E, G and H.
- Find EF.
- Find FG.
- E, F and G are three vertices of a rectangle. Find the fourth vertex.

5 Reflections

/ 4 pts

- Reflect $M(-7, 2)$ across the x-axis and across the y-axis.
- Reflect $P(4, -3)$ across the x-axis, then find the distance between P and its image.

6 True or false?

/ 2 pts

Decide and justify: (a) $-15 > -4$. (b) $|-6| = |6|$.



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