

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

Test solutions with the detailed point scale. Add up your points and spot what to review.

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

1 Opposites and absolute values

/ 3 pts

- a. 13 and -6.4 . (1 pt)
- b. 18 and $\frac{7}{2}$. (1 pt)
- c. $|-9| = 9 > 6$, so -9 has the greater absolute value, but $6 > -9$. (1 pt)

2 Ordering rational numbers

/ 4 pts

- a. In decimals: $-2.4, 1.8, -3, -0.5, 0, 1.25$. Order:
 $-3 < -2.4 < -\frac{1}{2} < 0 < \frac{5}{4} < 1.8$. (2 pts)
- b. Denominator 24: $-\frac{20}{24}$ and $-\frac{21}{24}$. Since $-21 < -20$, $-\frac{7}{8} < -\frac{5}{6}$. (2 pts)

3 Temperatures in context

/ 3 pts

- a. $38 - (-12) = 50$ degrees. (1 pt)
- b. $-5 > -12$, so the cold room is warmer. (1 pt)
- c. $9 - (-4) = 13$ degrees. (1 pt)

4 Points and a rectangle

/ 4 pts

- a. E is in quadrant II, G in quadrant IV, H in quadrant III. (1 pt)
- b. Same y: $3 + 5 = 8$. (1 pt)
- c. Same x: $4 + 2 = 6$. (1 pt)
- d. The fourth vertex is $(-3, -2)$. (1 pt)

5 Reflections

/ 4 pts

- a. Across the x-axis: $(-7, -2)$ (1 pt). Across the y-axis: $(7, 2)$ (1 pt).
- b. The image is $(4, 3)$ (1 pt). Same x, opposite signs: $3 + 3 = 6$ units (1 pt).

6 True or false?

/ 2 pts

- a. False: -15 is left of -4 , so $-15 < -4$. (1 pt)
- b. True: both are 6 units from zero. (1 pt)



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