

Grade 6 - Ordering Rational Numbers and Absolute Value - Test Answer Key

Common Core 6.NS.C.7a, 6.NS.C.7b, 6.NS.C.7c, 6.NS.C.7d · maths-pdf.fr/en/

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

Grade 6 · Common Core State Standards: **6.NS.C.7a**, **6.NS.C.7b**, **6.NS.C.7c**, **6.NS.C.7d**

Question 1 - Compare [2 pts]

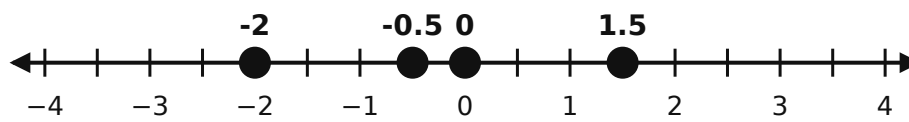
(a) $-6 > -9$.

(b) $-0.4 < -0.04$.

Scoring: 1 point for each comparison.

Question 2 - Order [2 pts]

$-2, -0.5, 0, 1.5$.



Least to greatest from left to right.

Scoring: 2 points for the correct order; 1 point if exactly one number is out of place.

Question 3 - Absolute value [2 pts]

(a) 12. (b) 7.5.

Scoring: 1 point for each value.

Question 4 - Temperature [2 pts]

$$-7 < -2.$$

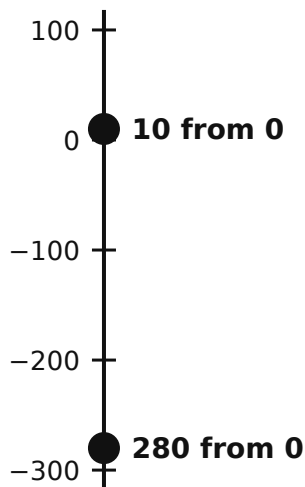
Anchorage is colder.

Scoring: 1 point for the inequality; 1 point for the city.

Question 5 - Elevation [2 pts]

$10 > -280$, so the beach is higher.

$|-280| = 280 > 10 = |10|$, so the valley has the greater absolute value.



Distance from 0 is the absolute value.

Scoring: 1 point for each correct answer with a reason.

Question 6 - Debt [2 pts]

Aisha: -15 ; Jamal: -40 .

$$-40 < -15.$$

Jamal owes more.

Scoring: 1 point for the integers; 1 point for the inequality and conclusion.

Question 7 - Equal distance [2 pts]

4.5 and -4.5 . They are opposites and are the same distance from 0.

Scoring: 1 point for both numbers; 1 point for the explanation.

Question 8 - Order with absolute values [3 pts]
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Values: 6, -2 , 3, -1 .

Order: $-2, -1, 3, 6$, which is $-2, -|1|, |3|, |-6|$.

Scoring: 1 point for evaluating each; 1 point for the order; 1 point for writing the original expressions in order.

Question 9 - Rank the scores [3 pts]

(a) $-7, -4, -1, 1$: Ethan, Noah, Mei, Sofia.

(b) $|-7| = 7$, so Ethan.

(c) $-4 < -1$.

Scoring: 1 point for each part.

Total
20 points