Homework · reason clearly

LESSON 1.1 / Real numbers and the number line

Eight problems. Attempt without notes first; then check and record one correction.

QUESTION 1

Classify $-18, 0, \frac{7}{2}, \sqrt{49}$ by their most specific sets, then list all larger applicable sets.

QUESTION 2

Explain why $0.\overline{6}$ is rational. Classify $\sqrt{5}$ and the exact decimal 2.236, and use the correct comparison symbol between them.

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QUESTION 3

Order $-\frac{7}{8},\ -0.9,\ -\frac{4}{5}, 0$ from least to greatest. Show an exact comparison and a scaled sketch.

QUESTION 4

Evaluate $|-12|$, $|5-13|$, $|-6|-|2-9|$ and $-|-6|$. Explain the role of each pair of bars.

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QUESTION 5

A submarine moves directly from height -25 m to height -7 m relative to sea level. Find signed change and endpoint distance. Then reverse the trip.

QUESTION 6

Find every position 6 units from zero. Find every position 3 units from coordinate -2. Check each answer.

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QUESTION 7

Correct these claims with reasons: every square root is irrational; every nonterminating decimal is irrational; absolute value is always positive.

QUESTION 8

Create a rational sum from two irrational numbers, then give an irrational sum from two irrational numbers. Explain why one example cannot establish an “always” rule.