

Subject: Mathematics

Class: 7

Topic: Comparing and Ordering Rational Numbers on Number Line

Levels: Basic, Intermediate, Advanced

Level: Basic

1. Identify the positive rational number: $-\frac{3}{4}$, 0, $\frac{5}{7}$, -2.
2. Which is greater on the number line: $\frac{1}{2}$ or $-\frac{1}{2}$? ?
3. On a number line, $-\frac{5}{2}$ lies to the _____ (Left/Right) of zero.
4. True or False: Every whole number is a rational number. ?
5. Express $\frac{3}{4}$ and $\frac{5}{4}$ on a number line. Which is further from zero?
6. Write the additive inverse of $-\frac{8}{11}$. ?
7. Compare using < or >: $-\frac{7}{9}$ _____ $-\frac{2}{9}$.
8. If a point is at $\frac{2}{3}$, how many units is it from 0? ?
9. Represent $-\frac{1}{3}$ and $\frac{1}{3}$ on a number line using a ? symbol.
10. Which is smaller: -10 or $-\frac{1}{10}$? ?

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Level: Intermediate

1. Arrange in ascending order: $-\frac{3}{5}$, $-\frac{1}{5}$, $-\frac{4}{5}$. ? ? ?
2. Rahul spent $\frac{1}{2}$ of his pocket money. Arjun spent $\frac{3}{4}$. Who spent more?
3. Find a rational number exactly halfway between $\frac{1}{4}$ and $\frac{3}{4}$. ?
4. Compare $-\frac{5}{6}$ and $-\frac{2}{3}$ by making the denominators same.
5. Is the value of $-\frac{15}{20}$ equal to $-\frac{3}{4}$? (Yes/No) ?
6. Which is larger: $-\frac{2}{7}$ or $-\frac{3}{8}$? Use cross-multiplication.
7. Plot the following on a number line: -1.5, -0.5, 0.5, 1.5. ?
8. Write 3 rational numbers between -1 and 0. ?
9. If $x = -\frac{4}{9}$ and $y = -\frac{5}{12}$, which point is closer to zero?
10. A submarine is at $-\frac{25}{2}$ meters depth. Is it deeper than -10 meters? ?

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1. Arrange in descending order: $-2/3$, $5/6$, $-7/9$, $1/2$. ? ? ?
2. Find the value of ? if ? = $(1/2 + 1/4)$ and mark it on the number line.
3. A bag of rice weighs $5\frac{2}{3}$ kg. Another weighs $17/3$ kg. Compare them. ²
4. If ? is roughly $22/7$, where does -? lie compared to -3 on the number line?
5. Find five rational numbers between $-2/5$ and $-1/5$. ?
6. If a point P is at $-4/5$ and move $3/5$ units to the right, where is it now?
7. Solve and compare: $(2/3 - 1/6)$ ____ $(1/2 + 1/3)$. ?
8. Order the following temperature rational numbers: $-12/5$, $-7/2$, $-9/4$. ?
9. Is it true that $-a/b > -c/d$ if $a/b < c/d$? Give an example. ?
10. Represent the following set on a single number line: $\{-3/2, -1, -1/2, 0, 1/2\}$. ?