

Number Line

Number & Operations · Grade 3

Score: _____ / 10

◆ Medium · 10 Questions

Solve each problem. Show your work in the space provided. Write your answer on the line.

1. On a number line from 0 to 1, where would you place $\frac{1}{2}$?

Answer: _____

2. On a number line from 0 to 1, which fraction is farther right: $\frac{1}{4}$ or $\frac{3}{4}$?

Answer: _____

3. Place these fractions in order on a number line from 0 to 1:

$\frac{1}{3}$, $\frac{2}{3}$, $\frac{1}{6}$, $\frac{5}{6}$

Answer: _____

4. A number line goes from 0 to 1 in fourths ($\frac{1}{4}$ steps).

List all the marked fractions.

Answer: _____

5. A number line from 0 to 2 has marks at every $\frac{1}{2}$.

List all the marked positions.

Answer: _____

6. Which number line shows the correct position of $\frac{2}{5}$?

A: $\frac{2}{5}$ is between 0 and $\frac{1}{2}$ (closer to $\frac{1}{2}$)

B: $\frac{2}{5}$ is between $\frac{1}{2}$ and 1

Which is correct — A or B?

Answer: _____

7. On a number line from 0 to 2 in halves, where is $\frac{3}{2}$?

Answer: _____

8. Which is greater: $\frac{4}{6}$ or $\frac{2}{6}$?

Answer: _____

9. On a number line from 0 to 1 in eighths, where is $\frac{4}{8}$?

Answer: _____

10. Order from least to greatest on a number line:

$\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$

Answer: _____

Answer Key

Number Line — Medium

1. **At the midpoint — halfway between 0 and 1.**

$1/2 = 0.5$, which is exactly halfway between 0 and 1 on the number line.

2. **$3/4$ is farther right (it is larger).**

$1/4 = 0.25$, $3/4 = 0.75$. $3/4$ is closer to 1, so it is farther right.

3. **$1/6$, $1/3$, $2/3$, $5/6$**

Convert to sixths: $1/6$, $2/6$, $4/6$, $5/6$. Order: $1/6 < 2/6 (=1/3) < 4/6 (=2/3) < 5/6$.

4. **0, $1/4$, $2/4 (=1/2)$, $3/4$, 1**

$0/4$, $1/4$, $2/4$, $3/4$, $4/4$. In simplest form: 0, $1/4$, $1/2$, $3/4$, 1.

5. **0, $1/2$, 1, $3/2 (=1\frac{1}{2})$, 2**

0, 0.5, 1, 1.5, 2 — or 0, $1/2$, 1, $3/2$, 2.

6. **A is correct. $2/5 = 0.4$, which is just below $1/2$ (0.5).**

$2/5 = 0.40$. Since $0.40 < 0.50 (= 1/2)$, it is between 0 and $1/2$, just below the midpoint.

7. **between 1 and 2 (specifically, the midpoint of 1 and 2)**

$3/2 = 1\frac{1}{2}$, which is halfway between 1 and 2.

8. **$4/6$**

Same denominator: compare numerators. $4 > 2$, so $4/6 > 2/6$.

9. **the midpoint**

$4/8$ simplifies to $1/2$, the midpoint.

10. **$1/4$, $1/2$, $3/4$**

Left to right on the number line: smallest first.