Fractions on a Number Line

Apply the skill to decisions and designs

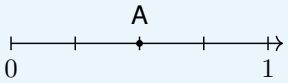
Name _____ **Date** _____ **Score** _____ / 6

QUICK REVIEW

Fractions are numbers with exact positions. If 0 to 1 has 4 equal intervals, each is $\frac{1}{4}$. The third interval ends at $\frac{3}{4}$; the fifth ends at $\frac{5}{4}$, between 1 and 2. Count spaces, not the tick marks.

Worked example

Name the number at point A. Count equal intervals, not tick marks.

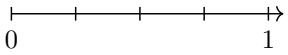


1. Each whole from 0 to 1 has 4 equal intervals, so each interval is $\frac{1}{4}$.
2. A is 2 intervals from 0, giving $2 \times \frac{1}{4} = \frac{2}{4}$.
Answer: $A = \frac{2}{4}$.

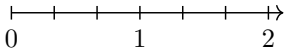
Practice Problems

Show your thinking.

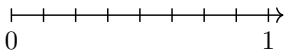
1. A runner has reached $\frac{3}{4}$ of a one-kilometer route. Mark the point and count the $\frac{1}{4}$-km steps still needed.



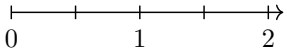
2. A toy moves 5 jumps of $\frac{1}{3}$ meter from 0. Mark the end point and name its distance.



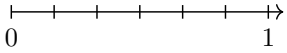
3. A runner has reached $\frac{7}{8}$ of a one-kilometer route. Mark the point and count the $\frac{1}{8}$-km steps still needed.



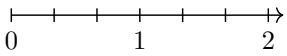
4. A toy moves 3 jumps of $\frac{1}{2}$ meter from 0. Mark the end point and name its distance.



5. Place a dot at $\frac{2}{6}$ and label it P on this line.



6. Between which two whole numbers is $\frac{4}{3}$? Mark it on the line.



Answer Key

1. 1 steps; $\frac{1}{4}$ km remain.
2. $\frac{5}{3}$ meter.
3. 1 steps; $\frac{1}{8}$ km remain.
4. $\frac{3}{2}$ meter.
5. P is at tick 2 after 0, at $\frac{2}{6}$.
6. Between 1 and 2.

Step-by-Step Solutions

Follow each calculation, then check your own work.

Problem 1

1. The whole route contains 4 equal steps; the runner has taken 3.

2. $4 - 3 = 1$ steps remain, a distance of $1 \times \frac{1}{4} = \frac{1}{4}$ km.

Problem 2

1. Every jump has length $\frac{1}{3}$ meter, with 3 such lengths in 1 meter.

2. After 5 jumps, the distance is $5 \times \frac{1}{3} = \frac{5}{3}$ meter.

Problem 3

1. The whole route contains 8 equal steps; the runner has taken 7.

2. $8 - 7 = 1$ steps remain, a distance of $1 \times \frac{1}{8} = \frac{1}{8}$ km.

Problem 4

1. Every jump has length $\frac{1}{2}$ meter, with 2 such lengths in 1 meter.

2. After 3 jumps, the distance is $3 \times \frac{1}{2} = \frac{3}{2}$ meter.

Problem 5

1. The unit interval is divided into 6 equal lengths, each $\frac{1}{6}$.

2. Count 2 of those lengths from 0: $2 \times \frac{1}{6} = \frac{2}{6}$. Put P there.

Problem 6

1. 1 wholes use 3 intervals of size $\frac{1}{3}$.

2. $3 < 4 < 6$, so $1 < \frac{4}{3} < 2$. Start at zero and move right 4 equal intervals of size $\frac{1}{3}$. Mark the endpoint.

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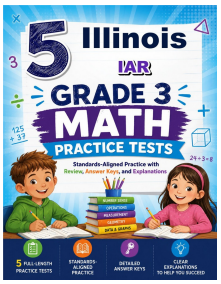

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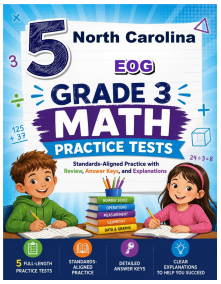

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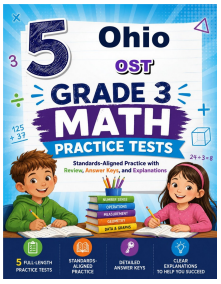

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