



GRADE 3 / WATCH MR DJ SOLVE

FRACTIONS ON A NUMBER LINE

Start with the same example used in the lesson slides.



WATCH MR DJ SOLVE

Draw a number line from 0 to 1. Make 3 equal intervals and mark $\frac{1}{3}$.

- 1 The whole is the interval 0 to 1.
- 2 Split it into 3 equal lengths.
- 3 One unit-fraction jump ends at the first mark.

Answer: **The first endpoint after 0 is $\frac{1}{3}$.**



REMEMBER locate fractions by counting equal unit-fraction intervals from zero.

Read each step and explain why it is valid. The next pages demonstrate the methods in more detail. Then use the large work areas on the numbered practice pages.



GRADE 3 / WORKED METHODS

FRACTIONS ON A NUMBER LINE

Read a complete example before trying the matching method.

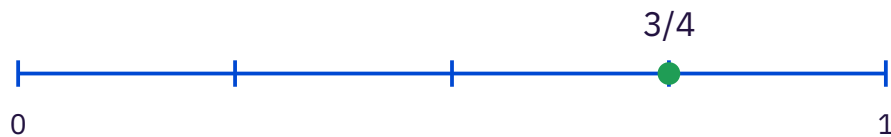


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

A fraction is a number

$\frac{3}{4}$ is three one-fourth jumps from 0

1. Name 0 to 1 as one whole unit.
2. Make four equal intervals.
3. Count three intervals to locate $\frac{3}{4}$.



Count equal gaps from zero



GRADE 3 / WORKED METHODS

FRACTIONS ON A NUMBER LINE

Read a complete example before trying the matching method.

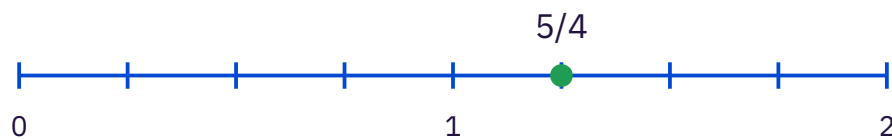


Use these examples as a reference. Keep each quantity and its unit visible. A different valid method is welcome unless a question specifically requests one.

Beyond one whole

$5/4$ is one fourth beyond 1

1. Four fourths reach 1.
2. Take one more fourth.
3. The new endpoint is $5/4$, between 1 and 2.



Count equal gaps from zero

GRADE 3 / MATHEMATICAL WORK TOOL

FRACTIONS ON A NUMBER LINE

Use labels and a clear scale.



Define one whole, then partition it into equal parts. On number lines, label zero and one before making equal intervals. Extend the line for fractions beyond one.



GRADE 3 / PRACTICE

FRACTIONS ON A NUMBER LINE

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔪 Mild

1. On a 0-to-1 line with 3 equal intervals, mark $\frac{2}{3}$.

My answer / conclusion: _____



GRADE 3 / PRACTICE

FRACTIONS ON A NUMBER LINE

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔼 Mild

2. How many equal $\frac{1}{3}$ jumps take you from 0 to 1? Explain.

My answer / conclusion: _____



GRADE 3 / PRACTICE

FRACTIONS ON A NUMBER LINE

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔊 Medium

3. Mark $\frac{4}{3}$ on a line from 0 to 2. Label 1 as well.

My answer / conclusion: _____



GRADE 3 / PRACTICE

FRACTIONS ON A NUMBER LINE

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔊 Medium

4. Draw a 0-to-1 line for 3 equal intervals. How many endpoint marks, including 0 and 1?

My answer / conclusion: _____

◀ Medium

5. Explain the distance from 0 to $\frac{2}{3}$ as repeated unit-fraction jumps.



My answer / conclusion: _____



GRADE 3 / PRACTICE

FRACTIONS ON A NUMBER LINE

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

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6. Digit counts 3 marks including 0 and 1, then says there are 3 equal intervals.

Explain.

Grid area for drawing and working.

My answer / conclusion: _____



GRADE 3 / PRACTICE

FRACTIONS ON A NUMBER LINE

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

🔥🔥🔥 Spicy

7. Can the point $\frac{2}{3}$ move when the whole 0-to-1 interval is drawn longer on paper? Explain.

Grid area for drawing and explanation.

My answer / conclusion: _____



GRADE 3 / PRACTICE

FRACTIONS ON A NUMBER LINE

Show the method, label your work, and explain the reasoning requested.



Use the worked-method reference when helpful. Use the included method reference. Show the requested method, then check your answer. Reasoning questions need evidence and an explanation.

Extra Spicy

8. Draw two number lines of different lengths showing $\frac{2}{3}$. Explain why both show the same number.

My answer / conclusion: _____