LESSON MAKER PRO

Fraction Trail Markers

Find fractions at points on number lines.

GRADE 3 · 3.NF.A.2

CCSS.Math.Content.3.NF.A.2 "Understand a fraction as a number on the number line; represent fractions on a number line diagram."

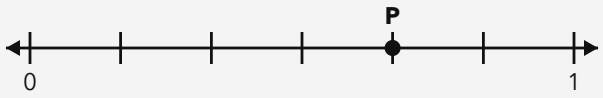
NAME _____ DATE _____

EQUAL STEPS ON A LINE

A fraction tells how many equal steps you move from 0. The bottom number tells how many equal steps make one whole, and the top number tells how many steps to count.

WORKED EXAMPLE

What fraction names point P?

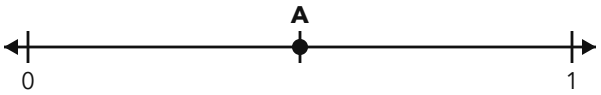


1. The space from 0 to 1 has 6 equal intervals.
2. Point P is 4 intervals to the right of 0.
3. Write 4/6.

Answer: 4/6

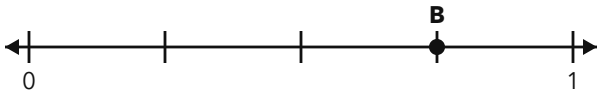
PRACTICE 6 problems

1 What fraction names point A?



ANSWER _____

2 What fraction names point B?



ANSWER _____

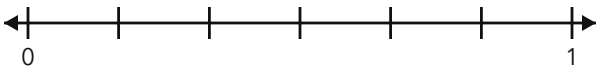
3 A number line from 0 to 1 has 8 equal intervals. What fraction is at the fifth tick mark to the right of 0?

ANSWER _____

4 A number line from 0 to 1 has 3 equal intervals. Point C is at the second tick mark to the right of 0. What fraction names point C?

ANSWER _____

5 This whole line has 6 equal intervals. Mark D at 5/6 and explain how you counted from zero.



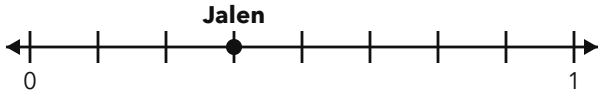
ANSWER _____

_____

6 Draw a number line from 0 to 1, partition it into 4 equal intervals, and mark E at 3/4.

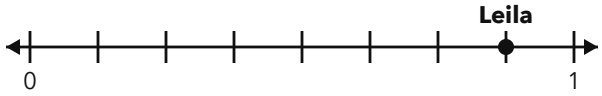
APPLY IT Show your work

1 Jalen is playing a video game. The number line shows his progress through one level. What fraction of the level has Jalen finished?



ANSWER

2 Leila is working toward a reading challenge goal. The number line shows how much of her goal she has completed. What fraction of the goal has Leila completed?



ANSWER

CHALLENGE One step up

On a line from 0 to 1, compare points at 1/4 and 3/4. Are they equally far from 1? Draw or explain.

WORK SPACE AND ANSWER

ANSWER KEY

Fraction Trail Markers

GRADE 3 · 3.NF.A.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	What fraction names point A?	**1/2**
2	What fraction names point B?	**3/4**
3	A number line from 0 to 1 has 8 equal intervals. What fraction is at the fifth tick mark to the right of 0?	**5/8**
4	A number line from 0 to 1 has 3 equal intervals. Point C is at the second tick mark to the right of 0. What fraction names point C?	**2/3**
5	This whole line has 6 equal intervals. Mark D at 5/6 and explain how you counted from zero.	**D is five intervals to the right of zero; each interval is 1/6.**
6	Draw a number line from 0 to 1, partition it into 4 equal intervals, and mark E at 3/4.	**Four equal intervals between 0 and 1; E is three intervals right of zero.**

PART 2 · APPLY IT

1. **3/8** Count 8 equal intervals from 0 to 1. Jalen's point is 3 intervals from 0, so the fraction is 3/8.
2. **7/8** The whole line has 8 equal intervals. Leila's point is 7 intervals to the right of 0, so she has completed 7/8.

CHALLENGE

No. The point 3/4 is one fourth from 1; 1/4 is three fourths from 1, so 3/4 is closer.

Require equal intervals and correct placement in the construction tasks. Accept equivalent fractions for identified points. Challenge: 3/4 is one interval from 1 on a fourths scale, while 1/4 is three intervals away.