LESSON MAKER PRO

Number Line Hops

Find fractions from 0 to 1.

GRADE 3 · NY-3.NF.2

NY-3.NF.2 "Understand a fraction as a number on the number line; represent fractions on a number line."

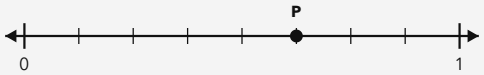
NAME _____ DATE _____

FRACTIONS HAVE PLACES

A fraction on a number line shows a distance from 0. Count the equal spaces from 0 to 1 for the denominator, then count the spaces from 0 to the point for the numerator.

WORKED EXAMPLE

What fraction names point P?

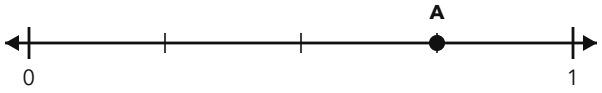


1. Count 8 equal spaces from 0 to 1.
2. Count 5 spaces from 0 to P.
3. Write 5/8.

Answer: 5/8

PRACTICE 6 problems

1 What fraction names point A?



ANSWER _____

2 A number line from 0 to 1 has 6 equal spaces. Point B is at the third tick to the right of 0. Write the fraction for B.

ANSWER _____

3 Which fraction is farther right on a number line, 1/4 or 1/2?

ANSWER _____

4 A number line from 0 to 1 has 6 equal spaces. Write the fraction at the fourth tick to the right of 0.

ANSWER _____

5 A number line from 0 to 1 has 4 equal spaces. Write the fraction at the second tick to the right of 0.

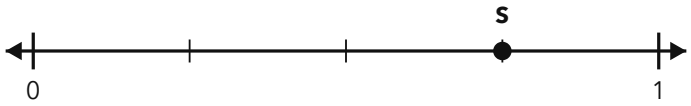
ANSWER _____

6 Write <, >, or =. 3/6 ___ 1/2

ANSWER _____

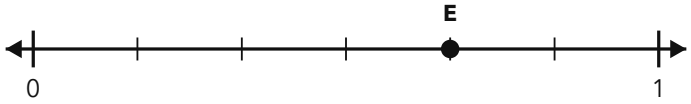
APPLY IT Show your work

1 In a rocket game, 0 is launch and 1 is the space station. The marker S shows how far the rocket has traveled. What fraction of the trip has the rocket traveled?



ANSWER _____

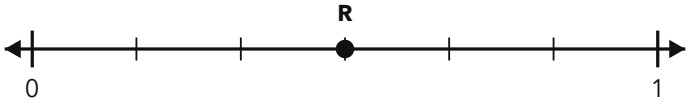
2 A game energy meter is shown on the number line. What fraction names point E? Is point E to the left or to the right of 1/2?



ANSWER _____

CHALLENGE One step up

Kai says point R is 3/6. Lila says point R is 1/2. Are both students correct? Explain your reasoning.



WORK SPACE AND ANSWER

ANSWER KEY

Number Line Hops

GRADE 3 · NY-3.NF.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	What fraction names point A?	**3/4**
2	A number line from 0 to 1 has 6 equal spaces. Point B is at the third tick to the right of 0. Write the fraction for B.	**3/6**
3	Which fraction is farther right on a number line, 1/4 or 1/2?	**1/2**
4	A number line from 0 to 1 has 6 equal spaces. Write the fraction at the fourth tick to the right of 0.	**4/6**
5	A number line from 0 to 1 has 4 equal spaces. Write the fraction at the second tick to the right of 0.	**2/4**
6	Write <, >, or =. 3/6 ___ 1/2	**=**

PART 2 · APPLY IT

1. **3/4** The trip is split into 4 equal spaces. Marker S is 3 spaces from 0, so it is at 3/4.
2. **4/6, to the right of 1/2** Point E is 4 equal spaces from 0 on a number line with 6 equal spaces. Since 1/2 is at 3/6, 4/6 is to its right.

CHALLENGE

Yes. Point R is 3/6, and 3/6 is the same point as 1/2.

Accept equivalent fraction names that identify the same point, such as 1/2, 2/4, and 3/6. For the challenge, accept explanations that state the point is halfway from 0 to 1 or that 3 of 6 equal spaces is one-half.