LESSON MAKER PRO

Fraction Steps

Count equal spaces on a number line.

GRADE 3 · 3.NF.2

3.NF.2 "Understand and represent fractions on a number line diagram. Represent a fraction 1/b on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into b equal parts..."

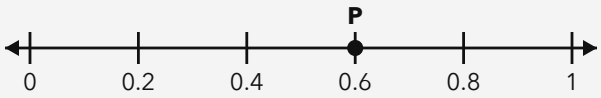
NAME _____ DATE _____

FROM ZERO TO ONE

The distance from 0 to 1 is one whole. When you split the whole into equal spaces, each space is one equal part of the whole. Count spaces from 0 to find the fraction at a point.

WORKED EXAMPLE

What fraction is at P?

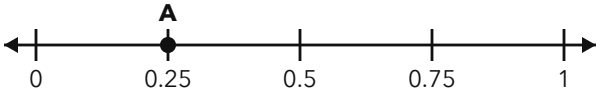


1. Count 5 equal spaces from 0 to 1.
2. Each space is 1/5 of the whole.
3. Count 3 spaces from 0 to P.

Answer: P is at 3/5.

PRACTICE 6 problems

1 What fraction is at A?



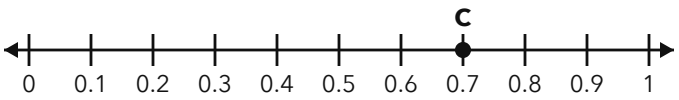
ANSWER _____

2 What fraction is at B?



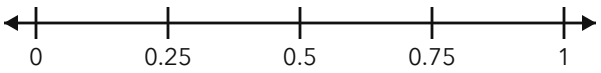
ANSWER _____

3 What fraction is at C?



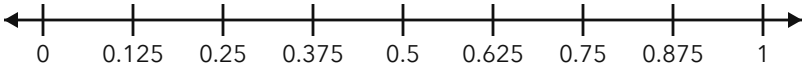
ANSWER _____

4 Start at 0. Count two spaces to the right. Mark that tick M. What fraction is at M?



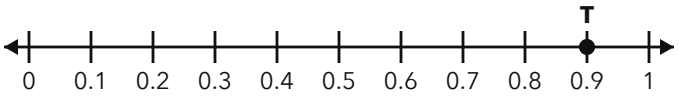
ANSWER _____

5 What fraction of the whole is one space on this line?



ANSWER _____

6 How many equal spaces are there from 0 to T? What fraction is at T?

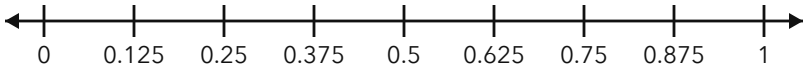


ANSWER _____

_____

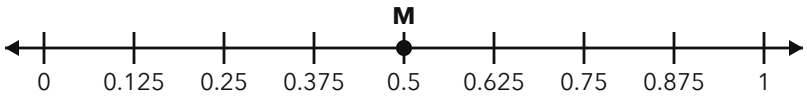
APPLY IT Show your work

1 Maya's scooter path runs from 0 to 1 on the line. She rides 6 of the 8 equal spaces. Mark her stopping place S. What fraction of the path has she ridden?



ANSWER _____

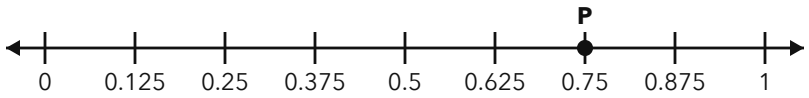
2 A music track runs from 0 to 1 on the line. Sam stops it at M. What fraction of the track has played?



ANSWER _____

CHALLENGE One step up

Ava says P is at 6/8. Ben says P is at 3/4. Are they both right? Explain using the equal spaces on the line.



WORK SPACE AND ANSWER

ANSWER KEY

Fraction Steps

GRADE 3 · 3.NF.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	What fraction is at A?	**1/4**
2	What fraction is at B?	**5/8**
3	What fraction is at C?	**7/10**
4	Start at 0. Count two spaces to the right. Mark that tick M. What fraction is at M?	**M is at 2/4.**
5	What fraction of the whole is one space on this line?	**1/8**
6	How many equal spaces are there from 0 to T? What fraction is at T?	**9 spaces; 9/10**

PART 2 · APPLY IT

1. **S is at 6/8; Maya has ridden 6/8 of the path.** Count six spaces from 0 and mark their endpoint S. Each space is 1/8 of the path.
2. **4/8** There are eight equal spaces from 0 to 1. M is four spaces from 0, so 4/8 of the track has played.

CHALLENGE

Yes. P is six 1/8 spaces from 0. Every two 1/8 spaces make 1/4, so six spaces make 3/4.

For points at 2/4 and 4/8, accept 1/2 if the marked point is correct. For the challenge, accept an explanation that groups the six eighth-size spaces into three pairs.