LESSON MAKER PRO

Fraction Track Detectives

Read points from 0 to 1 on equal number lines.

GRADE 3 · TEKS 3.3.B

3.3.B "determine the corresponding fraction greater than zero and less than or equal to one with denominators of 2, 3, 4, 6, and 8 given a specified point on a number line;"

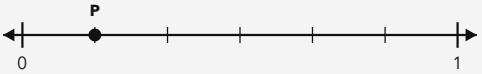
NAME _____ DATE _____

COUNT THE EQUAL SPACES

The spaces from 0 to 1 must be equal. Count all the equal spaces to find the denominator. Count the spaces from 0 to the point to find the numerator.

WORKED EXAMPLE

What fraction names point P? Write the fraction in sixths.

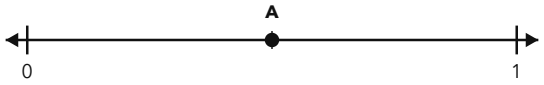


1. Count 6 equal spaces from 0 to 1.
2. Point P is 1 space to the right of 0.
3. Write 1 for the numerator and 6 for the denominator.

Answer: 1/6

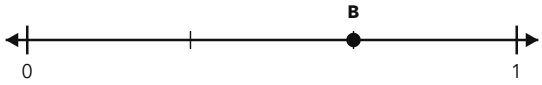
PRACTICE 6 problems

1 What fraction names point A? Write the fraction in halves.



ANSWER _____

2 What fraction names point B? Write the fraction in thirds.



ANSWER _____

3 A number line from 0 to 1 is divided into 4 equal spaces. Point C is at the third tick after 0. What fraction names C? Write it in fourths.

ANSWER _____

4 A number line from 0 to 1 is divided into 6 equal spaces. Point D is at the fourth tick after 0. What fraction names D? Write it in sixths.

ANSWER _____

5 A number line from 0 to 1 is divided into 8 equal spaces. Point E is at the seventh tick after 0. What fraction names E? Write it in eighths.

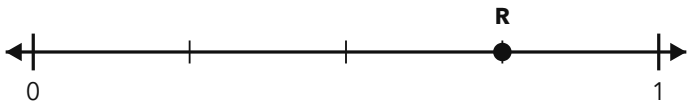
ANSWER _____

6 A number line from 0 to 1 is divided into 4 equal spaces. Point F is at the first tick after 0. What fraction names F? Write it in fourths.

ANSWER _____

APPLY IT Show your work

1 In a space-race game, Jalen's rocket is at point R on the track. What fraction of the track from 0 to 1 has it traveled? Write it in fourths.



ANSWER _____

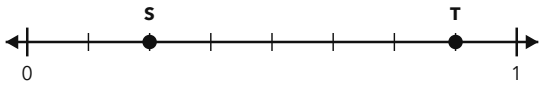
2 A music app download bar is divided into 6 equal parts. Four parts are filled. What fraction of the download is filled? Write it in sixths.

WORK SPACE

ANSWER _____

CHALLENGE One step up

The number line shows points S and T. Write each point as a fraction with denominator 8. Then explain which point is closer to 1.



WORK SPACE AND ANSWER

ANSWER KEY

Fraction Track Detectives

GRADE 3 · TEKS 3.3.B

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	What fraction names point A? Write the fraction in halves.	**1/2**
2	What fraction names point B? Write the fraction in thirds.	**2/3**
3	A number line from 0 to 1 is divided into 4 equal spaces. Point C is at the third tick after 0. What fraction names C? Write it in fourths.	**3/4**
4	A number line from 0 to 1 is divided into 6 equal spaces. Point D is at the fourth tick after 0. What fraction names D? Write it in sixths.	**4/6**
5	A number line from 0 to 1 is divided into 8 equal spaces. Point E is at the seventh tick after 0. What fraction names E? Write it in eighths.	**7/8**
6	A number line from 0 to 1 is divided into 4 equal spaces. Point F is at the first tick after 0. What fraction names F? Write it in fourths.	**1/4**

PART 2 · APPLY IT

1. **3/4** The track has 4 equal spaces. Point R is 3 spaces from 0, so the fraction is 3/4.
2. **4/6** There are 6 equal parts in all and 4 filled parts. Write 4/6.

CHALLENGE

S = 2/8; T = 7/8. T is closer to 1 because it is 1/8 away, while S is 6/8 away.

Students should use the denominator named in each prompt, so do not replace sixths or eighths with simplified equivalents. For the challenge explanation, accept any correct comparison showing that T is nearer to 1.