LESSON MAKER PRO

Fraction Detective

Find fractions in shapes, sets, and lengths.

GRADE 3 · 3.N.3.2

3.N.3.2 "Model fractions using length, set, and area for halves, thirds, fourths, sixths, and eighths."

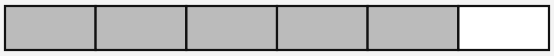
NAME _____ DATE _____

COUNT EQUAL PARTS

A fraction tells how many equal parts are chosen out of all the equal parts. The top number counts the chosen parts, and the bottom number counts all the parts. On a number line, count the equal spaces, not the tick marks.

WORKED EXAMPLE

What fraction of the bar is shaded?



1. Count 6 equal parts in the whole bar.
2. Count 5 shaded parts.
3. Write shaded parts over all parts: 5/6.

Answer: 5/6

PRACTICE 6 problems

1 What fraction of the bar is shaded?



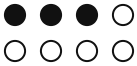
ANSWER _____

2 What fraction of the dots is shaded?

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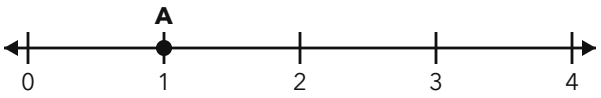
ANSWER _____

3 What fraction of the dots is shaded?



ANSWER _____

4 The whole length runs from 0 to 4. What fraction of the length is from 0 to A?



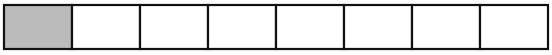
ANSWER _____

5 The whole length runs from 0 to 6. What fraction of the length is from 0 to B?



ANSWER _____

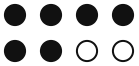
6 What fraction of the bar is shaded?



ANSWER _____

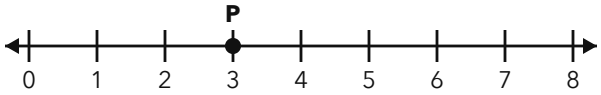
APPLY IT Show your work

1 On Jo's sticker sheet, the shaded dots are animal stickers. What fraction of the stickers show animals?



ANSWER _____

2 Kai's bike path runs from 0 to 8 on the line. Kai has reached P. What fraction of the path has Kai ridden?



ANSWER _____

CHALLENGE One step up

A student says C is 2/7 of the whole length because there are 7 tick marks. Is the student correct? Write the correct fraction and explain.



WORK SPACE AND ANSWER

ANSWER KEY

Fraction Detective

GRADE 3 · 3.N.3.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	What fraction of the bar is shaded?	**1/2**
2	What fraction of the dots is shaded?	**2/3**
3	What fraction of the dots is shaded?	**3/8**
4	The whole length runs from 0 to 4. What fraction of the length is from 0 to A?	**1/4**
5	The whole length runs from 0 to 6. What fraction of the length is from 0 to B?	**4/6**
6	What fraction of the bar is shaded?	**1/8**

PART 2 · APPLY IT

1. **6/8** There are 6 shaded dots out of 8 dots in all, so the fraction is 6/8.
2. **3/8** Kai has ridden 3 of the 8 equal spaces on the path, so the fraction is 3/8.

CHALLENGE

No. C is 2/6 of the whole length because there are 2 equal spaces from 0 to C and 6 equal spaces from 0 to 6.

Accept 2/3 for 4/6 and 3/4 for 6/8. For the challenge, accept 1/3 if the explanation counts spaces rather than tick marks.