LESSON MAKER PRO

Fraction Strip Detectives

Read fraction bars, number lines, and fraction names.

GRADE 3 · 3.NS.3.a.ii

3.NS.3.a.ii "Represent, name, and write a given fraction (proper or improper) or mixed number with denominators of 2, 3, 4, 5, 6, 8, and 10 using: length models (e.g., paper fraction strips, fraction bars, rods, number lines); and"

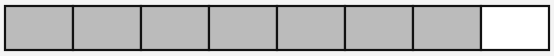
NAME _____ DATE _____

READ THE PARTS

A fraction bar is split into equal parts. The denominator tells how many equal parts are in one whole, and the numerator tells how many parts are counted. When you have one or more full bars and part of another bar, write a mixed number.

WORKED EXAMPLE

Write the fraction shown by the shaded bar.



1. Count the equal parts in the whole bar. There are 8 parts.
2. Count the shaded parts. There are 7 parts.
3. Write shaded parts over total parts.

Answer: 7/8

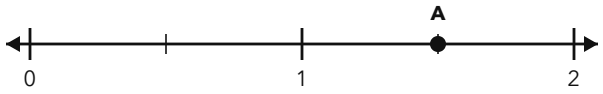
PRACTICE 6 problems

1 Write the fraction shown by the shaded bar.



ANSWER _____

2 Point A shows a mixed number. Write the mixed number.



ANSWER _____

3 Write the fraction named five sixths.

ANSWER _____

4 Write 9/5 as a mixed number.

ANSWER _____

5 Write two and three tenths as an improper fraction.

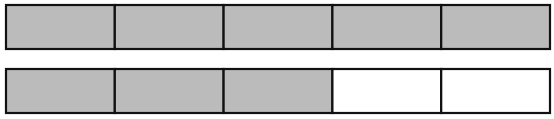
ANSWER _____

6 Write 4/3 as a mixed number.

ANSWER _____

APPLY IT Show your work

1 A hiking game tracker shows the distance Jalen walked. Each whole bar stands for 1 mile. Write the distance as an improper fraction of a mile.



ANSWER _____

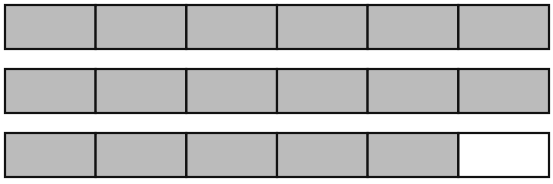
2 At the maker club, a 3-D printer runs for 11/6 hours. Write the time as a mixed number.

WORK SPACE

ANSWER _____

CHALLENGE One step up

The model shows ribbon used for a school play. Write the total amount as an improper fraction. Explain how the bars helped you.



WORK SPACE AND ANSWER

ANSWER KEY

Fraction Strip Detectives

GRADE 3 · 3.NS.3.a.ii

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write the fraction shown by the shaded bar.	**3/4**
2	Point A shows a mixed number. Write the mixed number.	**1 1/2**
3	Write the fraction named five sixths.	**5/6**
4	Write 9/5 as a mixed number.	**1 4/5**
5	Write two and three tenths as an improper fraction.	**23/10**
6	Write 4/3 as a mixed number.	**1 1/3**

PART 2 · APPLY IT

1. **8/5 mile** One full bar is 5/5. Add 5/5 and 3/5 to get 8/5 mile.
2. **1 5/6 hours** Six sixths make 1 whole hour. Five sixths are left, so the time is 1 5/6 hours.

CHALLENGE

17/6. Two full bars show 12/6, and the last bar shows 5/6. Together, 12/6 + 5/6 = 17/6.

Accept fraction words when they match the requested fraction. For mixed-number items, accept only a whole number and a proper fraction, and require the challenge explanation to identify the two whole bars and the remaining fifths or sixths.