LESSON MAKER PRO

Parts of a Whole

Read fractions in bars and rectangles.

GRADE 3 · 3.NF.A.13

3.NF.A.13 "Demonstrate that a unit fraction represents one part of an area model or length model of a whole that has been equally partitioned; explain that a numerator greater than one indicates the number of unit pieces represented by the fraction."

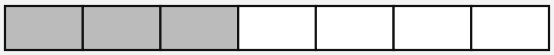
NAME _____ DATE _____

COUNT EQUAL PARTS

A whole must be split into equal parts to show a fraction. One part is a unit fraction: its bottom number tells how many equal parts make the whole. The top number tells how many of those parts you are counting.

WORKED EXAMPLE

What fraction of the bar is shaded?

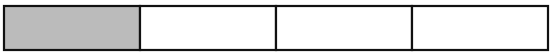


1. Count 7 equal parts in the whole bar.
2. One part is 1/7 of the bar.
3. Count 3 shaded parts.

Answer: 3/7

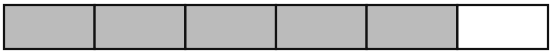
PRACTICE 6 problems

1 What fraction of the bar is shaded?



ANSWER _____

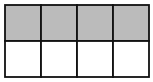
2 What unit fraction is one part of the bar? What fraction is shaded?



ANSWER _____

_____

3 What fraction of the rectangle is shaded?



ANSWER _____

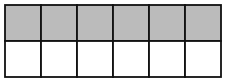
4 What fraction of the bar is shaded? What does the top number count?



ANSWER _____

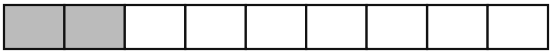
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5 What fraction of the rectangle is not shaded?



ANSWER _____

6 What unit fraction is one part of the bar? What fraction is shaded?



ANSWER _____

_____

APPLY IT Show your work

1 Mia divides her comic into equal reading sections. The bar shows the sections she has read. What fraction of the comic has Mia read?

Read 

ANSWER _____

2 At a class party, the shaded parts of a pizza were eaten. What fraction of the pizza was eaten? What unit fraction is one piece?

Eaten 

ANSWER _____

CHALLENGE One step up

The bars are the same length. What fraction of each bar is shaded? Explain why the shaded lengths match.

A 

B 

WORK SPACE AND ANSWER

ANSWER KEY

Parts of a Whole

GRADE 3 · 3.NF.A.13

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	What fraction of the bar is shaded?	**1/4**
2	What unit fraction is one part of the bar? What fraction is shaded?	**One part is 1/6; 5/6 is shaded.**
3	What fraction of the rectangle is shaded?	**4/8**
4	What fraction of the bar is shaded? What does the top number count?	**9/10; the top number counts 9 shaded parts.**
5	What fraction of the rectangle is not shaded?	**6/12**
6	What unit fraction is one part of the bar? What fraction is shaded?	**One part is 1/9; 2/9 is shaded.**

PART 2 · APPLY IT

1. **5/8** The bar has 8 equal parts, and 5 are shaded. Mia has read 5/8 of the comic.
2. **6/10 was eaten; one piece is 1/10.** The bar shows 10 equal pieces, so one piece is 1/10. Six pieces are shaded, so 6/10 was eaten.

CHALLENGE

Bar A shows 2/4, and bar B shows 4/8. Both have half of their equal-length bars shaded.

Accept an equivalent fraction when students are asked only for the shaded or unshaded amount. When asked for a unit fraction, students should name one part using the number of equal parts shown.