LESSON MAKER PRO

# Count the Set

*Write fractions for parts of a group.*

**GRADE 3 · 3.NOS.F.11**

**3.NOS.F.11** "Explain a fraction of a set c/d as the quantity formed by c items as part of the given set of d objects."

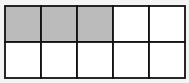
NAME _____ DATE _____

## THE BIG IDEA

A fraction of a set tells how many objects have a trait out of all the objects in the set. Write the number with the trait above the total number.

## WORKED EXAMPLE

What fraction of the squares are shaded?



1. Count all the squares: 10.
2. Count the shaded squares: 3.
3. Write shaded over all: 3/10.

**Answer: 3/10**

## PRACTICE 4 problems

**1** Of 7 buttons, 2 are blue. What fraction are blue?

**ANSWER** _____

**2** Of 9 beads, 4 are red. What fraction are red?

**ANSWER** _____

**3** Of 8 cards, 5 show stars. Write the fraction that show stars. What does the 8 count?

**ANSWER** _____

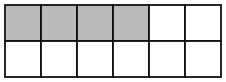
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**4** Of 6 pencils, 1 is green. What fraction are not green?

**ANSWER** _____

## APPLY IT Show your work

**1** At an arcade, each box stands for one ticket. Shaded boxes are winning tickets. What fraction of tickets win?



**ANSWER** _____

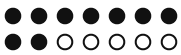
**2** A pet club has 11 pets. 6 are cats. What fraction of the pets are not cats?

WORK SPACE

**ANSWER** _____

## CHALLENGE One step up

Mia says 9/5 of these counters are shaded. Explain her mistake and give the correct fraction.



WORK SPACE AND ANSWER

**ANSWER KEY**

# Count the Set

**GRADE 3 · 3.NOS.F.11**

## PART 1 · PRACTICE

| # | PROBLEM | ANSWER |
|---|---|---|
| 1 | Of 7 buttons, 2 are blue. What fraction are blue? | **2/7** |
| 2 | Of 9 beads, 4 are red. What fraction are red? | **4/9** |
| 3 | Of 8 cards, 5 show stars. Write the fraction that show stars. What does the 8 count? | **5/8; 8 counts all the cards.** |
| 4 | Of 6 pencils, 1 is green. What fraction are not green? | **5/6** |

## PART 2 · APPLY IT

1. **4/12** There are 4 shaded boxes out of 12 boxes.
2. **5/11** Subtract 6 from 11 to find 5 pets that are not cats. That is 5 out of 11 pets.

## CHALLENGE

**Mia counted only the 5 unshaded counters for the bottom number. There are 14 counters in all, so 9/14 are shaded.**

For the challenge, accept any explanation that says the bottom number must count all 14 counters. Accept equivalent fractions, such as 1/3 for 4/12.