LESSON MAKER PRO

Share It Fairly

Use division and fractions to show equal shares.

GRADE 5 · 5.NOS.D.10

5.NOS.D.10 "Interpret a fraction as division of the numerator by the denominator (a/b = a ÷ b) in context using visual fraction models and equations to represent the problem (e.g...."

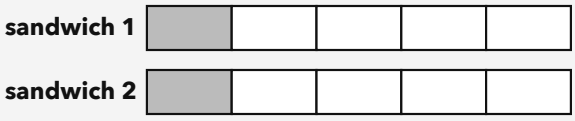
NAME _____ DATE _____

THE BIG IDEA

When you share a whole equally, each person gets the same amount. To share a wholes among b people, divide a by b. You can write the share as a ÷ b = a/b.

WORKED EXAMPLE

Two sandwiches are shared equally among 5 friends. How much does each friend get?



1. Cut each sandwich into 5 equal parts.
2. Each friend gets 1/5 of each sandwich.
3. Add the shares: 1/5 + 1/5 = 2/5.

Answer: 2 ÷ 5 = 2/5 sandwich per friend

PRACTICE 4 problems

1 Write 3 ÷ 4 as a fraction.

ANSWER _____

2 Write 6/7 as a division equation.

ANSWER _____

3 Seven identical pies are shared equally among 8 people. How much pie does each person get?

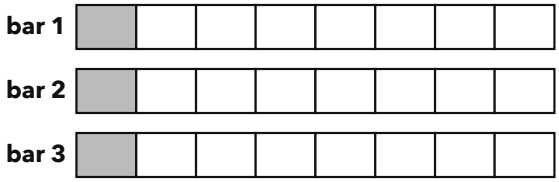
ANSWER _____

4 Nine cups of juice fill 4 pitchers equally. Write a division equation and the number of cups in each pitcher as a fraction.

ANSWER _____

APPLY IT Show your work

1 Eight friends share 3 granola bars equally. Each shaded piece in the model is one friend's share from that bar. Write an equation and tell how much each friend gets.



ANSWER _____

2 Four yards of ribbon are split equally among 9 students making team badges. Write an equation and tell how many yards each student gets.

WORK SPACE

ANSWER _____

CHALLENGE One step up

Six teams share 11 pizzas equally. Write a division equation. Then tell how many whole pizzas and what fraction of a pizza each team gets. Explain how you know.

WORK SPACE AND ANSWER

ANSWER KEY

Share It Fairly

GRADE 5 · 5.NOS.D.10

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write 3 ÷ 4 as a fraction.	**3/4**
2	Write 6/7 as a division equation.	**6 ÷ 7 = 6/7**
3	Seven identical pies are shared equally among 8 people. How much pie does each person get?	**7/8 pie**
4	Nine cups of juice fill 4 pitchers equally. Write a division equation and the number of cups in each pitcher as a fraction.	**9 ÷ 4 = 9/4 cups per pitcher**

PART 2 · APPLY IT

1. **3 ÷ 8 = 3/8 granola bar per friend** Each friend gets 1/8 from each of the 3 bars, for a total of 3/8 bar.
2. **4 ÷ 9 = 4/9 yard per student** Divide the 4 yards into 9 equal shares. Each share is 4/9 yard.

CHALLENGE

11 ÷ 6 = 11/6 = 1 5/6 pizzas per team. Give each team 1 whole pizza, leaving 5 pizzas. Sharing those 5 pizzas among 6 teams gives each team another 5/6 pizza.

Accept equivalent fractions and mixed numbers where appropriate. In the challenge, accept any correct explanation that accounts for all 11 pizzas in 6 equal shares.