LESSON MAKER PRO

Fair Share Fractions

Divide whole amounts into equal shares.

GRADE 5 · 5.NF.B.11.b

5.NF.B.11.b "Use visual fraction models, drawings, or equations to represent word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers"

NAME _____ DATE _____

THE BIG IDEA

To share whole items equally, divide the number of items by the number of groups. Write the division as a fraction: items ÷ groups = items/groups. A share greater than 1 can also be written as a mixed number.

WORKED EXAMPLE

Four children share 3 cookies equally. How much cookie does each child get?

One child's share 

1. Cut each cookie into 4 equal parts.
2. Give each child 1 part from each cookie.
3. Each child gets 1/4 + 1/4 + 1/4 = 3/4.

Answer: 3 ÷ 4 = 3/4 cookie per child

PRACTICE 4 problems

1 Two teams share 1 roll of tape equally. Write a division equation to find each team's share.

ANSWER _____

2 Five friends share 2 pizzas equally. Write a division equation to find each friend's share.

ANSWER _____

3 Two artists share 5 cups of paint equally. Write a division equation to find each artist's share.

ANSWER _____

4 Cut 7 feet of string into 5 equal pieces. Write a division equation to find each piece's length.

ANSWER _____

APPLY IT Show your work

1 Six game teams share 8 pizzas equally. Use the tape to show the shares. How much pizza does each team get?

Teams | | | | | | |] **8 pizzas**

ANSWER _____

2 A class splits 9 liters of fruit punch equally between 2 dispensers. How many liters go in each? Write an equation.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A costume club shares 11 yards of cloth equally among 6 costumes. Lee says each costume gets 1/6 yard because there are 6 costumes. Explain the mistake and write an equation for the correct share.

WORK SPACE AND ANSWER

ANSWER KEY

Fair Share Fractions

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Two teams share 1 roll of tape equally. Write a division equation to find each team's share.	**1 ÷ 2 = 1/2 roll**
2	Five friends share 2 pizzas equally. Write a division equation to find each friend's share.	**2 ÷ 5 = 2/5 pizza**
3	Two artists share 5 cups of paint equally. Write a division equation to find each artist's share.	**5 ÷ 2 = 5/2 = 2 1/2 cups**
4	Cut 7 feet of string into 5 equal pieces. Write a division equation to find each piece's length.	**7 ÷ 5 = 7/5 = 1 2/5 feet**

PART 2 · APPLY IT

1. **8/6 = 1 1/3 pizzas per team** Divide 8 pizzas by 6 teams. Each tape segment is 8/6, or 1 1/3, pizzas.
2. **9 ÷ 2 = 9/2 = 4 1/2 liters** Divide 9 liters by 2. Each dispenser gets 4 1/2 liters.

CHALLENGE

Lee counted only 1 yard, but the club has 11 yards to share. Each costume gets 11 ÷ 6 = 11/6 = 1 5/6 yards.

Accept equivalent fractions or mixed numbers with correct units. In the first word problem, the tape should show six equal shares of 8/6 pizza each.