LESSON MAKER PRO

Fair Share Fractions

Read fractions as division and share wholes equally.

GRADE 5 · 5.NF.B.3

CCSS.Math.Content.5.NF.B.3 "Interpret a fraction as division of the numerator by the denominator (a / b = a ÷ b). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g...."

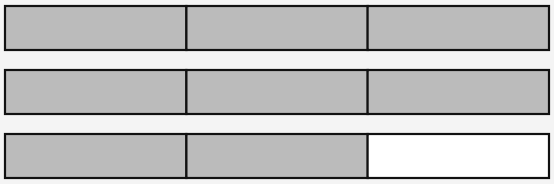
NAME _____ DATE _____

FRACTIONS SHOW DIVISION

A fraction a/b means a divided by b. The numerator is the amount being shared, and the denominator is the number of equal shares. When the numerator is larger than the denominator, the quotient can be written as a mixed number.

WORKED EXAMPLE

Write 8/3 as a division expression and a mixed number.



1. 8/3 means 8 ÷ 3.
2. 3 goes into 8 two whole times, with 2 left over.
3. Write the leftover as 2/3.

Answer: 8/3 = 8 ÷ 3 = 2 2/3

PRACTICE 6 problems

1 Write 6/5 as a division expression. Then write its value as a mixed number.

ANSWER _____

2 Find 22 ÷ 5. Write the quotient as a mixed number.

ANSWER _____

3 Eleven yards of ribbon are cut into 6 equal lengths for art groups. How many yards of ribbon does each group get?

ANSWER _____

4 The denominator in 9/2 tells you to divide by ___. Write 9/2 as a mixed number.

ANSWER _____

_____

5 Find 16 ÷ 7. Write the quotient as a mixed number.

ANSWER _____

6 Twenty markers are shared equally among 4 art tables. How many markers does each table get?

ANSWER _____

APPLY IT Show your work

1 At a robotics club, 29 yards of wire are shared equally among 7 teams for a build. How many yards of wire does each team get? Between which two whole numbers does the share lie?

WORK SPACE

ANSWER _____

2 An art club has 26 pounds of clay to share equally among 5 teams making sculptures. How many pounds of clay does each team get?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Thirty-four ounces of popcorn are shared equally among 7 friends. How much popcorn does each friend get? Explain how multiplication can check your answer.

WORK SPACE AND ANSWER

ANSWER KEY

Fair Share Fractions

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write 6/5 as a division expression. Then write its value as a mixed number.	**6 ÷ 5; 1 1/5**
2	Find 22 ÷ 5. Write the quotient as a mixed number.	**4 2/5**
3	Eleven yards of ribbon are cut into 6 equal lengths for art groups. How many yards of ribbon does each group get?	**1 5/6 yards**
4	The denominator in 9/2 tells you to divide by ___. Write 9/2 as a mixed number.	**2; 4 1/2**
5	Find 16 ÷ 7. Write the quotient as a mixed number.	**2 2/7**
6	Twenty markers are shared equally among 4 art tables. How many markers does each table get?	**5 markers**

PART 2 · APPLY IT

1. **4 1/7 yards; between 4 and 5** Write 29 ÷ 7 = 29/7. Seven goes into 29 four times with 1 yard left, so each team gets 4 1/7 yards.
2. **5 1/5 pounds** Write 26 ÷ 5 = 26/5. Five goes into 26 five times with 1 pound left, so each team gets 5 1/5 pounds.

CHALLENGE

Each friend gets 4 6/7 ounces. Check: 7 × 4 6/7 = 34, so 7 equal shares total 34 ounces.

Accept equivalent improper fractions or mixed numbers when they represent the correct share. For explanations, accept a correct division equation or multiplication check that shows the equal shares make the original total.