LESSON MAKER PRO

Share It Out

Use division to write fractions and mixed numbers.

GRADE 5 · 5.NR.3.1

5.NR.3.1 "Explain the meaning of a fraction as division of the numerator by the denominator (a/b = a ÷ b). Solve problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers."

NAME _____ DATE _____

DIVISION MAKES FRACTIONS

A fraction means division: the numerator is divided by the denominator. When the numerator is greater than the denominator, divide to find a whole-number quotient and a remainder. Write the remainder over the divisor to make the fraction part of a mixed number.

WORKED EXAMPLE

Write 11 ÷ 4 as a mixed number.

1. Divide: 11 ÷ 4 = 2 remainder 3.
2. The whole-number quotient is 2.
3. Write the remainder over the divisor: 3/4.
4. Combine the parts: 2 3/4.

Answer: 2 3/4

PRACTICE 6 problems

1 Write 3 ÷ 8 as a fraction in simplest form.

ANSWER _____

2 Write 13 ÷ 5 as a mixed number in simplest form.

ANSWER _____

3 Write 7 ÷ 9 as a fraction in simplest form.

ANSWER _____

4 Write 16 ÷ 7 as a mixed number in simplest form.

ANSWER _____

5 Write 5 ÷ 12 as a fraction in simplest form.

ANSWER _____

6 Write 22 ÷ 6 as a mixed number in simplest form.

ANSWER _____

APPLY IT Show your work

1 A robotics club has 17 pounds of clay to share equally among 3 teams. How many pounds of clay does each team get? Write your answer as a mixed number in simplest form.

WORK SPACE

ANSWER _____

2 Nine yards of string are cut into equal pieces for 14 friendship bracelets. How many yards of string are used for each bracelet? Write your answer as a fraction in simplest form.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A hiker walks 31 miles in 6 equal days. How many miles does the hiker walk each day? Write a mixed number in simplest form and explain how the remainder becomes the fraction part.

WORK SPACE AND ANSWER

ANSWER KEY

Share It Out

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Write 3 ÷ 8 as a fraction in simplest form.	**3/8**
2	Write 13 ÷ 5 as a mixed number in simplest form.	**2 3/5**
3	Write 7 ÷ 9 as a fraction in simplest form.	**7/9**
4	Write 16 ÷ 7 as a mixed number in simplest form.	**2 2/7**
5	Write 5 ÷ 12 as a fraction in simplest form.	**5/12**
6	Write 22 ÷ 6 as a mixed number in simplest form.	**3 2/3**

PART 2 · APPLY IT

1. **5 2/3 pounds** Divide 17 by 3. The quotient is 5 with remainder 2, so each team gets 5 2/3 pounds.
2. **9/14 yard** Divide 9 by 14. Since 9 is less than 14, the quotient is 9/14 yard.

CHALLENGE

5 1/6 miles. 31 ÷ 6 = 5 remainder 1, so the remainder is written as 1/6 because 6 is the divisor.

Accept equivalent fraction and mixed-number forms when they have the same value, although simplest form is expected when requested. For the challenge, accept an explanation that identifies the remainder as the numerator and the divisor as the denominator.