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Lesson 18 Word Problems with Fractions

Pages 89 and 90

OBJECTIVE

To review solving word problems involving multiplication and division of fractions

FOCUS LESSON

The Focus Lesson question leads students to interpret a word problem requiring dividing a fraction by a whole number. Help students to recognize that the situation calls for division. Students should be able to tell which number is the dividend and which is the divisor before using their knowledge of dividing fractions to find the quotient.

GUIDED PRACTICE

Students will use the model to help them find the product of two fractions. Discuss how they can shade the two fractions on the model to find the product. Review as necessary the steps to multiplying fractions without the use of a model.

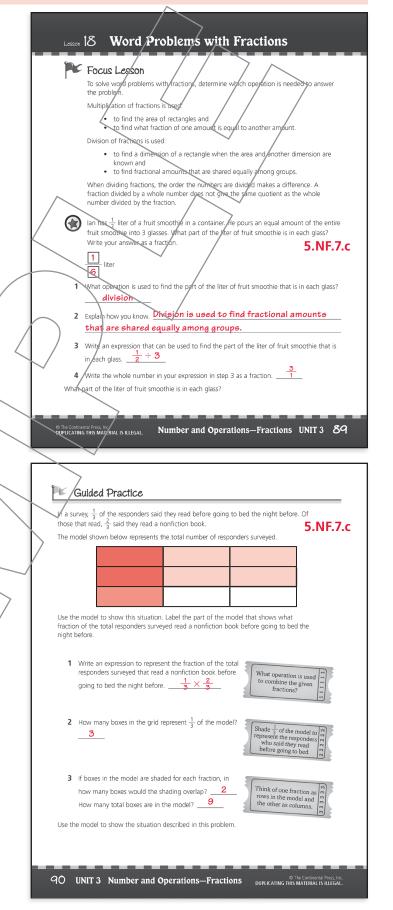


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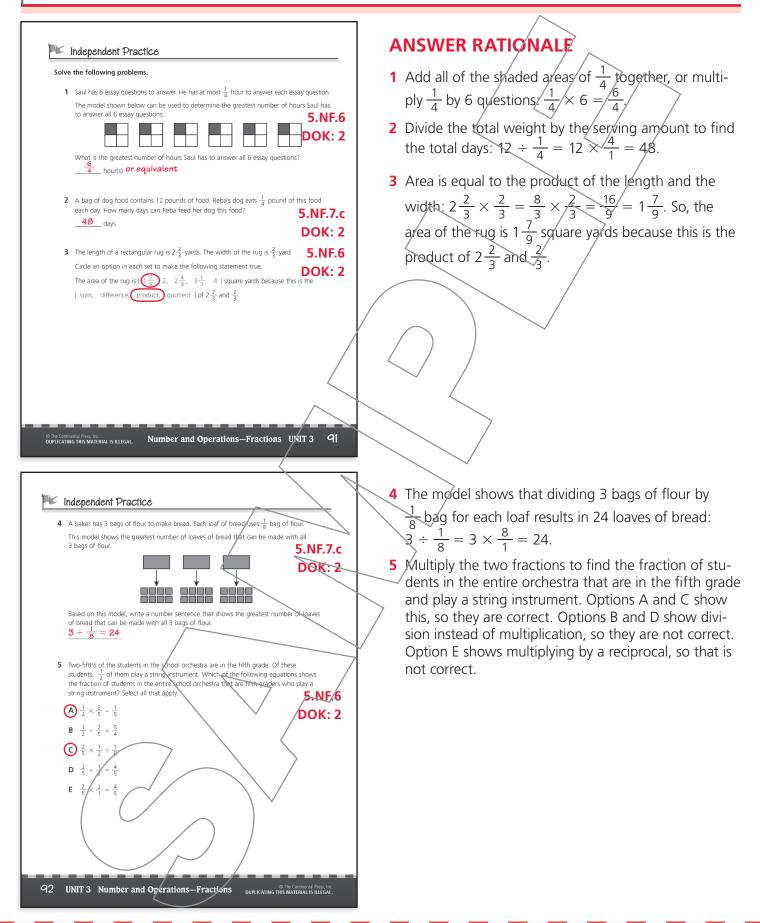
5.NF.6: Solve real world problems involving multiplication of fractions and mixed number, e.g., by using visual fraction models or equations to represent the problem.

5.NF.7: Apply and extend previous understanding of division to divide unit fractions by whole numbers and whole numbers by unit fractions.

c. Solve real world problems involving division of unit fractions by nonzero whole numbers and division of whole numbers by unit fraction, e.g., by using visual fraction models and equations to represent the problem.



Lesson 18 Independent Practice



UNIT 3 55

Lesson 18 Independent Practice

- 6 Area is equal to length times width. So, the area, in square inches, of the sticker is shown by the equation $1\frac{3}{4} \times \frac{3}{4} = \frac{7}{4} \times \frac{3}{4} = \frac{21}{16}$.
- 7 The total amount of ribbon divided by the number of gifts is equal to the fraction of the entire spool of ribbon used for each gift. This is shown by $\frac{1}{6} \div 3 = \frac{1}{18}$, so option F is correct. To rewrite division as multiplication, multiply the first number by the reciprocal of the second number: $\frac{1}{6} \times \frac{1}{3} = \frac{1}{18}$, so option E is correct. Option A is not correct because the numbers are multiplied instead of divided. Option B is not correct because the numbers are multiplied. Option C is not correct because the numbers being divided are in the wrong order. Option D is not correct because the numbers are in the wrong order.
- 8 Multiplication is used to find the fraction of the entire pie Evan ate today. A correct model will show $\frac{3}{4}$ shaded one color. Then, $\frac{1}{3}$ will be shaded a second color, and the solution, $\frac{1^3}{4}$ is shown by the overlap. This is shown in options B and E, so they are correct. Option A shows a solution of $\frac{1}{12}$, so this is not correct. Option C shows a solution of $\frac{1}{3}$, so this is not correct. Option D shows a solution of $\frac{3}{4}$, so this is not correct.



Present students with the following information: Some students are walking to raise money for a charity. They walk around a track that is $\frac{1}{4}$ mile long. It takes an average of 5 minutes to walk one lap. Adam plans to walk for 8 miles. Breanna plans to walk for 60 minutes. Chris plans to walk for 1 $\frac{1}{2}$ hours. Danya plans to walk for 10 $\frac{3}{4}$ miles

Have students work in pairs to write word problems involving multiplying and dividing fractions that use the information presented above. Have students exchange word problems and solve.

