Name_____**Date**_____

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

a. Interpret division of a unit fraction by a non-zero whole number, and compute such quotients. *For example, create a story context for (1/3) ÷ 4, and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that (1/3) ÷ 4 = 1/12 because (1/12) × 4 = 1/3.*

b. Interpret division of a whole number by a unit fraction, and compute such quotients. *For example, create a story context for 4 ÷ (1/5), and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that 4 ÷ (1/5) = 20 because 20 × (1/5) = 4.*

c. Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem. *For example, how much chocolate will each person get if 3 people share 1/2 lb of chocolate equally? How many 1/3-cup servings are in 2 cups of raisins?*

Use visual fraction models and equations to solve.

1. ½ ÷ 9
   a) $^{1}/_{18}$
   b) $4\ ^{1}/_{2}$
   c) $2\ ^{1}/_{9}$
   d) $9\ ^{1}/_{2}$

2. $5 \div {}^{1}/_{5}$
   a) $^{1}/_{25}$
   b) $^{25}/_{1} = 25$
   c) $^{6}/_{5} = 1\ ^{1}/_{5}$
   d) $^{5}/_{5} = 1$

3. $3 \div {}^{1}/_{4}$
   a) ${}^{3}/_{4}$
   b) ${}^{34}/_{10}$
   c) ${}^{4}/_{4} = 1$
   d) ${}^{12}/_{1} = 12$

4. Steven bought 1/3 of ground pork to make meatballs. If he makes 5 meatballs, how much will each meatball weigh?

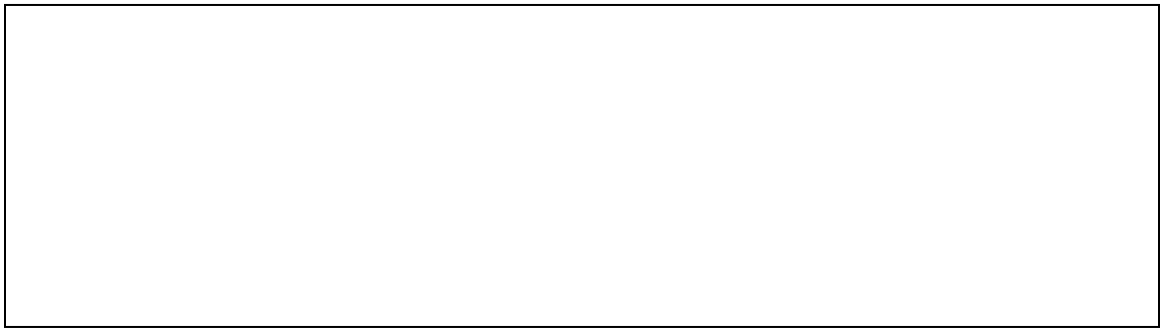
   a) ½ pound
   b) ${}^{5}/_{3} = 1\ {}^{2}/_{3}$ pound
   c) ${}^{1}/_{15}$
   d) ${}^{1}/_{8}$

5. If there are 6 donuts, and each donut is cut into thirds, how many pieces will there be?

   a) 63
   b) 18
   c) 9
   d) 2

Write a story context to illustrate three of the following problems:

6. $4 \div 1/2$

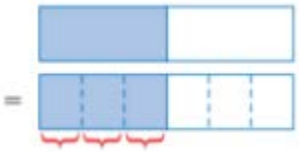


7. 1/3 ÷ 5

8. 5 ÷ 1/2

Write a contextual problem that explains the diagrams:

9. ½ ÷ 3 = ?



10. 4 ÷ 1/8 =?