5th grade Unit 4-- Dividing whole numbers and unit fractions (Form A)

Name_____   Date_____

25.NF.7_a. interpret division of a unit fraction by a non-zero whole number and compute such quotients (e.g., create a story context for (1/3) ÷ 4 and use a visual fraction model to show the quotient.

26.NF.7_b. interpret division of a whole number by a unit fraction and compute such quotients (e.g., create a story context for 4 ÷ (1/5) and use a visual fraction model to show the quotient.

27.NF.7_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.

Solve:	
1.) $\frac{1}{10} \div 4 =$	3.) $8 \div \frac{1}{4} =$
2.) $\frac{1}{8} \div 3 =$	4.) $6 \div \frac{1}{2} =$

Circle your answer choice.

5.) The bucket holds 12 liters of water. If we use a scoop that holds one-fourth of a liter, how many scoops will we need in order to fill the entire bucket?

A. 3 scoops   B. 4 scoops   C. 12 scoops   D. 48 scoops

6.) Donald made a peach pie and ate $\frac{5}{6}$ of it. He's going to give the rest of the pie to his 2 cousins. How much of the pie will each cousin get if they split it equally?

A. $\frac{1}{12}$ pie   B. $\frac{1}{6}$ pie   C. $\frac{2}{6}$ pie   D. $\frac{5}{12}$ pie

Solve each problem, showing your work with a model, a number line, or an equation.

7.) I am making hot chocolate for my class. I have 6 cups of hot chocolate powder, and need $\frac{1}{5}$ cup of powder for each serving. How many servings can I make? _____

8.) Mrs. White bought a $\frac{1}{2}$ ft. sandwich at the deli. She is going to share her sandwich her husband. If they split the sandwich equally, how long will each piece be? _____

Carefully show all of your work and thinking for the problems below.

9.) Write a story problem that can be solved with $\frac{1}{2} \div 8$

   Draw a model that shows how to solve the problem.

10.) Use the number line to show the solution to $2 \div \frac{1}{3}$

   Explain your reasoning.

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