STUDY GUIDE

## Fractions: As Division, Multiplication & Division
(Module 4) 5.NF.3; 5.NF.4; 5.NF.6; 5.NF.7; 5.NBT.7; 5.MD.1; 5.MD.2

1. Match each fraction on the left with its equivalent fraction on the top row. Mark your answers on your answer document.

|	$\frac{5}{15}$	$\frac{3}{27}$	$\frac{1}{2}$
$\frac{3}{6}$	O	O	O
$\frac{1}{9}$	O	O	O
$\frac{1}{3}$	O	O	O

2. There are 3 pieces of tape. Each one is 2 and 3 fourths inches long. Write as many expressions as you can to correctly find the total length of all the tape. HINT: use more than one operation & think of other ways to represent the values provided.

3. The line plot below represents the amount of paint used, in pints, by the students in art class.
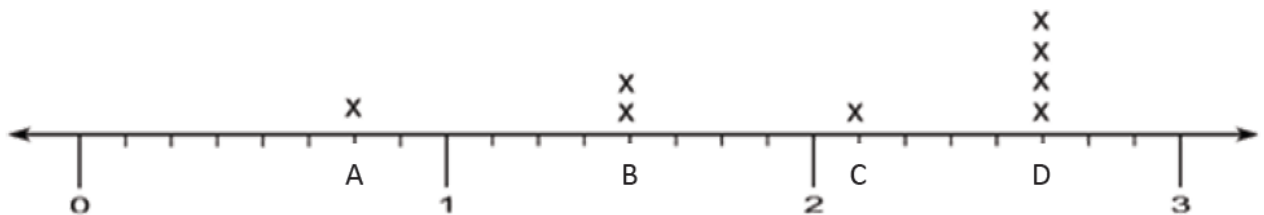
How many total gallons was used?

4. Michael is building a platform that is 12 and a half feet long and 6 feet wide. Write as many multiplication expressions as possible to find the total area of the platform. Find the area.

5. Write each of the following in standard form & put them in order from least to greatest:
   a. twelve and thirteen-hundredths
   b. thirteen and eleven-hundredths
   c. twelve and one hundred forty six-thousandths
   d. nine and five tenths

6. Janice has 3 pieces of large construction paper. She wants to use an equal amount of the paper for the project she is currently working on and next 11 projects she has planned. Shade the number of sections of paper she will use on one project.
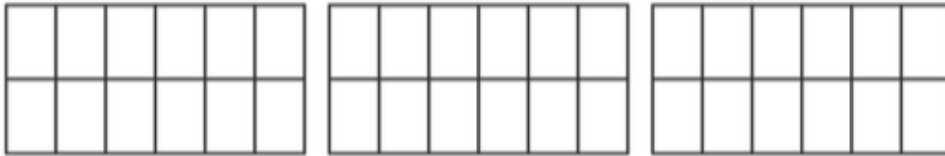
7. Mr. Parker is baking 4 cakes. He uses two-thirds cups of sugar for each cake. Write an expression that does NOT include fractions and can be used find the number of cups Mr. Parker used in all.

8. There are 3 bags of dog food. Each bag is four-fifths full. Write an expression that does NOT include fractions and can be used to find the total number of bags of dog food there are in all.

9. In the expression below, *k* represents a positive number. What can you predict about the value of the product in comparison to the value of *k* ?

$$k \times \frac{6}{7}$$

10. Marcus ran 1 and 1-fourth kilometers each day for 7 days. What can you predict about the total number of kilometers he ran in all? What mental math strategies can you use to estimate your answer?

11. Circle the expression that represents the greatest value and underline the expression that represents the least value. Explain your thinking.
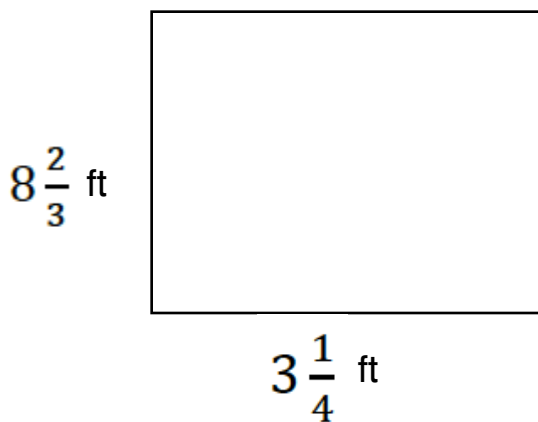
$$6 \div \frac{1}{3} \qquad 3 \div \frac{1}{4} \qquad 5 \div \frac{1}{2} \qquad 4 \div \frac{1}{5}$$

12. What is the area of the shape below?

$8\frac{2}{3}$ ft

$3\frac{1}{4}$ ft

13. Mary has 8 and 3-fourths yards of rope. She needs to use one-third of the rope for a project she is working on. How many yards of rope will she need to finish the project? Show your thinking.

14. Evaluate each of the following expressions.

$10.8 \times \dfrac{3}{4}$ $\dfrac{1}{3} \div 4$

1.2×23

            $4 \div \dfrac{1}{3}$

$1.5 \div 0.5$

15. Convert each of the following to an equivalent decimal.

$\dfrac{3}{25} =$ $3\dfrac{11}{25} =$

16. Convert each of the following to an equivalent decimal.

$3\dfrac{5}{6}$ ft = _____ in

$4\dfrac{3}{10}$ hr = _____ min

17. Solve the following problem. Select all correct answers.

$$10 \times \frac{3}{5} =$$

A. 6

B. $\frac{30}{50}$

C. $\frac{30}{5}$

D. $\frac{3}{50}$

E. $\frac{6}{1}$