STUDY GUIDE

Fractions:

As Division, Multiplication, & Division
Module 4: End of Module

Name: _____#_____

Date: _____

1. Darken the bubbles to match each fraction on the left with its equivalent fraction on the top row.

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

2. There are 4 pieces of wire. Each one is 3 and 1-sixth inches long. Select **ALL** of the expressions that would give the total length of all the ropes.

   A. $4 \times \frac{18}{6}$
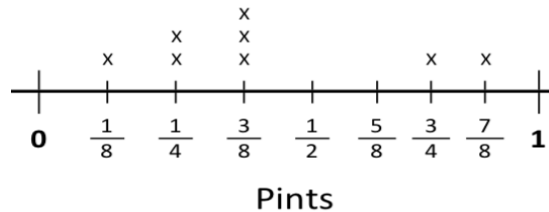
   B. $\frac{19}{6} + \frac{19}{6} + \frac{19}{6} + \frac{19}{6}$

   C. $3\frac{1}{6} + 3\frac{1}{6} + 3\frac{1}{6} + 3\frac{1}{6}$

   D. $\frac{1}{4} \times 3\frac{1}{6}$

   E. $\frac{18}{6} + \frac{18}{6} + \frac{18}{6} + \frac{18}{6}$

   F. $4 \times \frac{19}{6}$

3. What is the total number of cups represented on the line plot below?

Pints

4. A wall is built for a play that has a width of 5 and a half feet and a length of 15 feet. Write an expression using multiplication with an improper fraction that can be used to find the area of the wall, then find the area.

5. Complete each math sentence below with the correct comparison symbol.

   A. $\frac{6}{5} \times 17 \bigcirc 17$

   B. $\frac{11}{12} \times \frac{8}{7} \bigcirc \frac{8}{7}$

   C. $6 \times \frac{4}{5} \bigcirc 6$

   D. $22 \times \frac{5}{5} \bigcirc \frac{5}{5}$

   E. $22 \times \frac{5}{5} \bigcirc 22$

   F. $\frac{6}{5} \times 17 \bigcirc \frac{6}{5}$

   G. $\frac{11}{12} \times \frac{8}{7} \bigcirc \frac{11}{12}$

   H. $6 \times \frac{4}{5} \bigcirc \frac{4}{5}$

6. Janice has 3 pieces of construction paper. She wants to use the same amount of paper on the project she is working on and the next 8 projects she has planned. Shade the number of sections of paper she will use on each project.

7 There are three bags of sugar. Each bag is four-fifths full. Circle each expression below that can be used to find the total number of bags of sugar there are in all.

A. $4 \div (5 \times 3)$ **E.** $5 \times (3 \div 4)$

B. $5 \div 4 \times 3$ **F.** $(4 \times 3) \div 5$

C. $3 \times \frac{4}{5}$ **G.** $4 \times \frac{3}{5}$

D. $4 \times 3 \div 5$ **H.** $5 \times \frac{3}{4}$

9. In the expression below, s represents an unknown positive number. Which statement is true about the value of the expression?

$$s \times \frac{7}{8}$$

A. The product is always equal to s when s is less than 1.

B. The product is always less than $\frac{7}{8}$ when s is less than 1.

C. The product is always greater than s when s is less than 1.

D. The product is always greater than $\frac{7}{8}$ when s is greater than 1.

10. Find the value of each expression below.

A. $6 \div \frac{1}{7} =$ _____   **C.** $8 \div \frac{1}{2} =$ _____

B. $7 \div \frac{1}{6} =$ _____   **D.** $9 \div \frac{1}{3} =$ _____

11. What is the are of a rectangle with a length of 2 and 1-fourth feet and a width of 5 feet.

12. What is 1-fourth of 5.6?

13. Evaluate each of the following expressions:

$7 \div \frac{1}{8} =$ $1.3 \times 15 =$ $1.5 \div 0.7 =$

$4 \div \frac{1}{6} =$ $\frac{1}{6} \div 4 =$ $12.8 \div \frac{3}{4} =$

14. Write each of the following fraction values as decimals.

$\frac{6}{8} =$ $6\frac{23}{25} =$

15. Convert each of the following measurements.

$5\frac{3}{4}$ ft = _____ in $8\frac{1}{4}$ qt = _____ pt $2\frac{1}{3}$ yd = _____ ft $4\frac{4}{5}$ hr = _____ min