Name:_____

1.) Sophie and Emma ordered pizza for their sleep over. Sophie ate 4 of the 12 slices and Emma ate 5 slices. Write an equation to show how much they ate combined.

2.) Which shows the sum to $4\frac{3}{4} + 3\frac{2}{4}$?
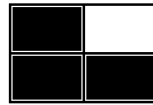
 a.) $\frac{16}{4} + \frac{12}{4}$

 b.) $\frac{12}{4} + \frac{6}{4}$

 c.) $\frac{19}{4} + \frac{14}{4}$

 d.) $\frac{11}{4} + \frac{9}{4}$

3.) Circle **ALL** the ways that represent the following mixed number and model.

$3\frac{3}{4}$

 a.) $1 + 1 + \frac{4}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

 b.) $\frac{4}{4} + \frac{4}{4} + \frac{4}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

 c.) $\frac{4}{4} + \frac{1}{4} + 1$

 d.) $\frac{4}{4} + \frac{4}{4} + \frac{3}{4}$

 e.) $\frac{4}{4} + 1 + \frac{1}{4} + \frac{4}{4} + \frac{2}{4}$

4.) Solve and write your answer as an improper fraction and mixed number.

$5 \times \frac{7}{8}$

5.) Which equation has the same product as: $2 \times \frac{4}{6}$
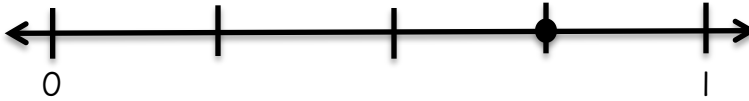
 a.) $8 \times \frac{1}{6}$

 b.) $2 \times \frac{1}{6}$

 c.) $8 + \frac{1}{6}$

 d.) $2 + \frac{4}{6}$

6.) What fraction represented by the point on the number line?

0   1

7.) Shade in the model to represent the product of 5 × $\frac{4}{5}$

8.) <u>Using the product from question number 7</u>, write another multiplication equation using its <u>unit fraction</u>.

9.) Blake needs 10 $\frac{2}{5}$ gallons of concrete to pave his patio and stairs. He has used 5 $\frac{4}{5}$ gallons so far on the patio and 3 $\frac{3}{5}$ gallons on the stairs.

   Part A.) How many gallons has Blake used so far?

   Part B.) How many gallons does Blake have left to use?

10.) Mark has a bag of marbles. $\frac{1}{9}$ of the marbles are red, $\frac{4}{9}$ are blue, and $\frac{2}{9}$ are green. The rest of the marbles are pink.

   Part A.) How many marbles are pink?

   Part B.) How many more marbles are blue and red than pink?

   Part C.) How many marbles are red and green?

11.)   Part A.) What is the sum of the unit fractions for $\frac{3}{8}$

        Part B.) Write the fraction as a product of a whole number and a unit fraction?

Name:_____

Unit 6 Study Guide

1.) Sophie and Emma ordered pizza for their sleep over. Sophie ate 4 of the 12 slices and Emma ate 5 slices. Write an equation to show how much they ate combined.

4/12 + 5/12 = 9/12 → 3/4

2.) Which shows the sum to $4\frac{3}{4} + 3\frac{2}{4}$?
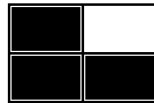
a.) $\frac{16}{4} + \frac{12}{4}$

c.) $\frac{19}{4} + \frac{14}{4}$

b.) $\frac{12}{4} + \frac{6}{4}$

d.) $\frac{11}{4} + \frac{9}{4}$

3.) Circle **ALL** the ways that represent the following mixed number and model.

$3\frac{3}{4}$

a.) $1 + 1 + \frac{4}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

b.) $\frac{4}{4} + \frac{4}{4} + \frac{4}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$

c.) $\frac{4}{4} + \frac{1}{4} + 1$

d.) $\frac{4}{4} + \frac{4}{4} + \frac{3}{4}$

e.) $\frac{4}{4} + 1 + \frac{1}{4} + \frac{4}{4} + \frac{2}{4}$

4.) Solve and write your answer as an improper fraction and mixed number.

$5 \times \frac{7}{8}$ 35/8   4 3/8

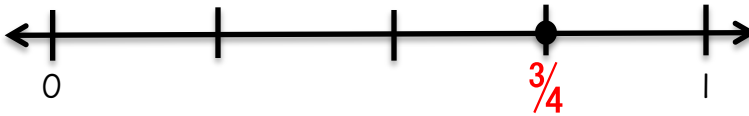5.) Which equation has the same product as: $2 \times \frac{4}{6}$

a.) $8 \times \frac{1}{6}$

b.) $2 \times \frac{1}{6}$

c.) $8 + \frac{1}{6}$

d.) $2 + \frac{4}{6}$

6.) What fraction represented by the point on the number line?

0   ¾   1

7.) Shade in the model to represent the product of $5 \times \frac{4}{5}$

8.) <u>Using the product from question number 7</u>, write another multiplication equation using its <u>unit fraction</u>.

$20 \times 1/5$

9.) Blake needs $10 \frac{2}{5}$ gallons of concrete to pave his patio and stairs. He has used $5 \frac{4}{5}$ gallons so far on the patio and $3 \frac{3}{5}$ gallons on the stairs.

   Part A.) How many gallons has Blake used so far?

   $8\ 7/5 \rightarrow 9\ 2/5$

   Part B.) How many gallons does Blake have left to use? 1 gallon

10.) Mark has a bag of marbles. $\frac{1}{9}$ of the marbles are red, $\frac{4}{9}$ are blue, and $\frac{2}{9}$ are green. The rest of the marbles are pink.

   Part A.) How many marbles are pink?

   $2/9$

   Part B.) How many more marbles are blue and red than pink?

   $1/9 + 4/9 = 5/9$ $5/9 - 2/9 = 3/9 \rightarrow 1/3$

   Part C.) How many marbles are red and green?

   $3/9 \rightarrow 1/3$

11.)   Part A.) What is the sum of the unit fractions for $\frac{3}{8}$

   $1/8 + 1/8 + 1/8 = 3/8$

   Part B.) Write the fraction as a product of a whole number and a unit fraction?

   $3 \times 1/8 = 3/8$