Enhanced End of Topic Assessment

Name _____ Date _____

Part A: Multiple-Choice Questions

1. Which two expressions each represent $\frac{5}{11}$?

a. $5\overline{)11}$ and $5 \div 11$

b. $11\overline{)5}$ and $11 \div 5$

c. $11\overline{)5}$ and $5 \div 11$

d. $5\overline{)11}$ and $11 \div 5$

2. Jamal made $\frac{1}{3}$ gallon of lemonade. If he plans to pour servings of $\frac{1}{9}$ gallon size, how many servings does he have?

a. 3

b. $\frac{1}{27}$

c. $\frac{1}{3}$

d. 6

3. Which statement about 8 multiplied by $\frac{1}{3}$ must be true?

a. The product is greater than 8.

b. The product is between $\frac{1}{3}$ and 8.

c. The product is less than $\frac{1}{3}$.

d. The product is between 7 and 8.

4. Sherril bought $9\frac{1}{2}$ pounds of plant food. She will give each of the plants in her nursery $\frac{1}{9}$ pound of plant food. There are 85 plants in Sherril's nursery. Which statement is true?

a. Sherril has more food than she needs for all the plants. She will have 1 portion left over.

b. Sherril has more food than she needs for all the plants. She will have $\frac{1}{2}$ portion left over.

c. Sherril has just enough food for all the plants.

d. Sherril does not have enough food for all the plants. She needs another $\frac{1}{2}$ pound of food.

5. Tyanna has $\frac{7}{8}$ yard of spirit ribbon to make hair bows for her friends. It takes $\frac{1}{12}$ yard to make each hair bow. Tyanna will use the following expression to calculate the number of hair bows that she can make from $\frac{7}{8}$ yard spirit ribbon.

$$\frac{7}{8} \div \frac{1}{12}$$

Which expression can also be used to calculate the number of hair bows that can be made from $\frac{7}{8}$ yard of spirit ribbon?

a. $\frac{8}{7} \cdot \frac{1}{12}$

b. $\frac{8}{7} \cdot \frac{12}{1}$

c. $\frac{7}{8} \cdot \frac{1}{12}$

d. $\frac{7}{8} \cdot \frac{12}{1}$

Part B: Open-Response Questions

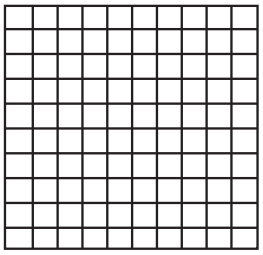
6. Write 4 equivalent fractions for the given fraction. Be sure that one of the 5 fractions is in simplest form. Circle the fraction in simplest form.

$\frac{2}{8}$ _____ _____ _____ _____

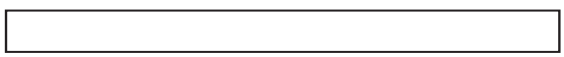
7. Michael cuts 3 sandwiches into equal-sized pieces to share among four friends. Michael says that each friend will receive $\frac{3}{4}$ of a sandwich. His friend Sue says each person will receive $\frac{4}{12}$ of a sandwich. Are both Michael and Sue saying the same thing? Explain.

8. If each model below represents 1, represent the benchmark fraction $\frac{1}{4}$ on each model.

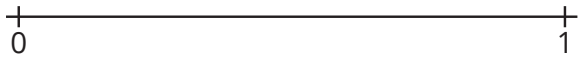
a.



b.



c.



9. List the fractions in order from least to greatest. Explain your reasoning.

$\frac{7}{5}, \frac{1}{16}, 1\frac{1}{8}, \frac{7}{12}$

10. The heights, in meters, of a collection of plants are shown in the table.

Plant	Height (meters)
A	$\frac{7}{9}$
B	$\frac{9}{4}$
C	0.6
D	$1\frac{2}{25}$
E	2

a. Jessica says that the plant with the greatest height is Plant E since it is the only height that is a whole number and the other heights are all fractions or decimals. Is Jessica correct? Explain your answer.

b. Write the heights in order from greatest to least.

11. Explain the meaning of the expression $\frac{1}{3}$ of $\frac{5}{6}$. How does the value of the product compare to the value of each of its factors?

12. Estimate and then calculate the product. Write your answer in lowest terms.

$\frac{8}{9} \cdot 2\frac{4}{7}$

13. Aisha has $\frac{9}{10}$ liter of water to use in a chemical experiment. She will pour $\frac{2}{5}$ of a liter into each experiment container.

How many experiment containers can she make?

14. Calculate the quotient. Write your answer in lowest terms.

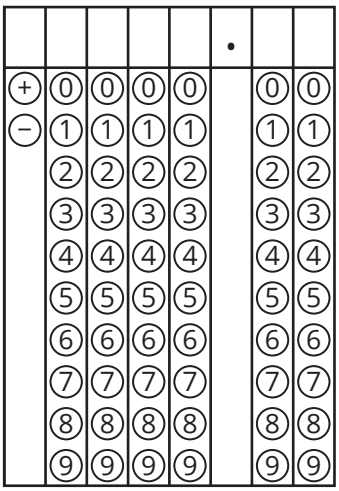
$\frac{5}{8} \div 2\frac{3}{4}$

Part C: Griddable Response Questions

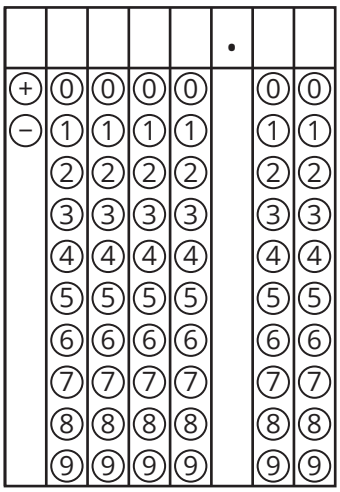
Record your answers and fill in the bubbles. Be sure to use the correct place value.

15. Complete the equation to make the fractions equivalent.

$\frac{}{15} = \frac{24}{45}$



16. A recipe for one batch of cookies requires 2 sticks of butter, $1\frac{1}{4}$ cups of flour, $\frac{1}{2}$ cup of sugar and $\frac{1}{2}$ teaspoon of vanilla extract. If you plan to make 4 batches of cookies, how many cups of flour do you need?



17. Violet has 6 teaspoons of salt. She puts $\frac{1}{4}$ teaspoon of salt in each batch of blueberry muffins that she makes. How many batches of muffins can Violet make?

					•		
+	0	0	0	0		0	0
−	1	1	1	1		1	1
	2	2	2	2		2	2
	3	3	3	3		3	3
	4	4	4	4		4	4
	5	5	5	5		5	5
	6	6	6	6		6	6
	7	7	7	7		7	7
	8	8	8	8		8	8
	9	9	9	9		9	9