

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

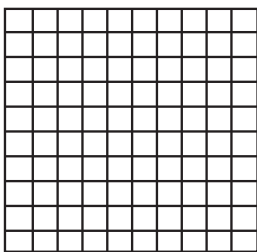
6. Write 4 equivalent fractions for the given fraction. Be sure that one of the 5 fractions is in simplest form. Circle the fraction in simplest form.

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

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 simplest 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 simplest 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.** What value will make the fractions equivalent?

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

					.		
(+)	(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)

- 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?

					.		
(+)	(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)

- 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