Standardized Test

Name _____   Date _____

1. Which set of fractions is in order from least to greatest?
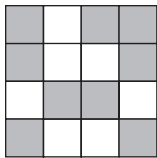
   a. $\frac{3}{8}, \frac{5}{6}, \frac{7}{16}, \frac{11}{20}$

   b. $\frac{3}{8}, \frac{7}{16}, \frac{11}{20}, \frac{5}{6}$

   c. $\frac{5}{6}, \frac{3}{8}, \frac{7}{16}, \frac{11}{20}$

   d. $\frac{11}{20}, \frac{7}{16}, \frac{5}{6}, \frac{3}{8}$

2. The shaded squares in the figure shown represent $\frac{9}{16}$ of the whole figure. Which statement best describes the fraction?

   a. It is not close to $\frac{1}{2}$.

   b. It is close to, but less than $\frac{1}{2}$.

   c. It is close to, but greater than $\frac{1}{2}$.

   d. It is exactly $\frac{1}{2}$.

3. Tamara is making a large omelet and needs $\frac{1}{2}$ cup of chopped tomatoes. She only has a $\frac{1}{8}$-cup measuring cup. How many times should Tamara fill this measuring cup for the tomatoes?
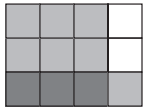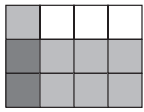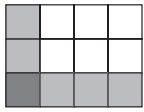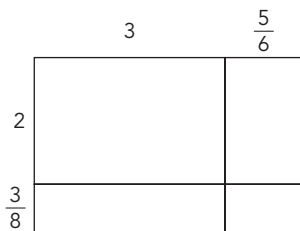
   a. 1

   b. 2

   c. 4

   d. 8

4. James planted a garden. He told his friends that he planted tomatoes in $\frac{1}{3}$ of $\frac{3}{4}$ of the garden. Which area model represents the part of the garden that contains tomatoes?

a.

b.

c.

d.

5. The area model shows the multiplication $2\frac{3}{8} \times 3\frac{5}{6}$. Which expression shows the correct product?

**a.** $6 + 1\frac{2}{3} + 1\frac{1}{8} + \frac{5}{16}$

b. $6 \times 1\frac{2}{3} \times 1\frac{1}{8} \times \frac{5}{16}$

c. $6 + 1\frac{2}{3} \times 1\frac{1}{8} + \frac{5}{16}$

d. $6 \times 1\frac{2}{3} + 1\frac{1}{8} \times \frac{5}{16}$

6. $2\frac{3}{4} \times 8\frac{1}{3} = ?$

a. $\frac{7}{275}$

b. $\frac{33}{100}$

c. $22\frac{11}{12}$

d. $33\frac{1}{3}$

7. Mr. Gauss asked Jenna and Jason to calculate the product $3\frac{2}{3} \times 5\frac{1}{4}$. Jenna calculated $\frac{231}{12}$ as the product and Jason calculated $\frac{77}{4}$ as the product. Who calculated the correct answer?

    a. Neither Jenna nor Jason calculated the correct answer.

    b. Jenna calculated the only correct answer.

    c. Jason calculated the only correct answer.

    d. Both Jenna and Jason calculated the correct answer.

8. Ms. Gooden feeds stray cats in the park every evening. She never knows how many cats will come to be fed. The food is always shared equally among the cats that are at the park. One evening, when 6 cups of cat food were shared, each cat received $\frac{2}{3}$ cup of cat food. How many cats were fed that evening?

    a. 4 cats

    b. 6 cats

    c. 9 cats

    d. 18 cats

9. After Esayas's birthday party, $\frac{3}{4}$ of a pizza remained. Esayas wants to share the pizza with 5 of his friends. What part of the pizza will Esayas and each of friends receive?

    a. $\frac{1}{12}$

    b. $\frac{1}{8}$

    c. $\frac{2}{9}$

    d. $4\frac{1}{2}$

10. Ms. Dehejia has 25 sheets of colored paper. She wants to use the paper to create flyers announcing a recycling drive. She will use $\frac{1}{4}$ sheet of paper for each flyer. How many flyers can Ms. Dehejia make?
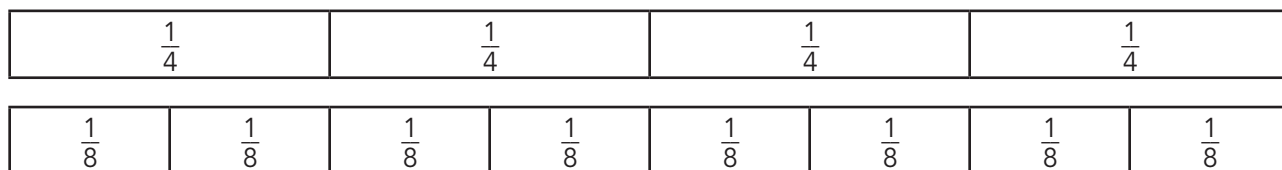
a. $\frac{4}{25}$ flyer

b. $6\frac{1}{4}$ flyers

c. 10 flyers

d. 100 flyers

11. Georgianne plans to build a wooden tower for a school art display, using various kinds of wood blocks. The tower will be 2 yards tall. Each block is $\frac{1}{8}$ yard tall. How many blocks will Georgianne need for her tower? Use the model to help you solve the problem.
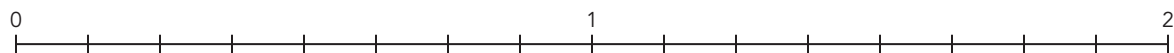
a. $1\frac{7}{8}$

b. $2\frac{1}{8}$

c. 10

d. 16

12. Alfredo is making dinner for himself and some friends. He has $\frac{7}{8}$ cup of sauce for one of the dishes. If each serving requires $\frac{1}{4}$ cup of sauce, how many servings can Alfredo make in all? Use the model to help you solve the problem.

$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$	
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$

a. 2

b. $3\frac{1}{2}$

c. 4

d. 12

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

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

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

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

14. Setsuko has $\frac{9}{10}$ yard of colored ribbon. She plans to cut the ribbon into pieces. Each piece will be $\frac{1}{6}$ yard long. How many whole pieces can Setsuko make from the ribbon?

    a. 3

    b. 4

    c. 5

    d. 6

15. An arts supply store has 28 pounds of modeling clay to ship to a client. Each packing box can contain no more than $\frac{3}{4}$ pound of modeling clay. Which statement is true?

    a. The store will need exactly 21 boxes for the shipment.

    b. The store will need exactly 37 boxes for the shipment.

    c. The store will need exactly 38 boxes for the shipment, with $\frac{1}{4}$ pound of clay going into the last box.

    d. The store will need exactly 38 boxes for the shipment, with $\frac{1}{3}$ pound of clay going into the last box.

16. Which sets of fractions are ordered from greatest to least? Select all that apply.

    a. $\frac{4}{5}, \frac{3}{4}, \frac{5}{8}, \frac{11}{20}$

    b. $\frac{3}{4}, \frac{3}{8}, \frac{9}{20}, \frac{5}{24}$

    c. $\frac{8}{15}, \frac{26}{45}, \frac{5}{9}, \frac{3}{5}$

    d. $\frac{10}{12}, \frac{3}{4}, \frac{2}{3}, \frac{15}{24}$

17. Which numbers are positive rational numbers? Select all that apply.

    a. 0.01

    b. $\frac{5}{12}$

    c. 0

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

    e. $\frac{0}{7}$

    f. 9

18. Which sets of numbers are ordered from least to greatest? Select all that apply.

    a. $\frac{1}{8}$, $\frac{3}{5}$, 0.7, $\frac{5}{4}$, 1

    b. 0.05, $\frac{5}{10}$, $\frac{15}{10}$, 5, 10

    c. $\frac{1}{4}$, 0.3, $\frac{35}{100}$, $\frac{2}{5}$, 0.5

    d. 0.6, $\frac{6}{100}$, 1, 1.25, $\frac{16}{4}$

19. Mr. Sams asked his class to order these fractions from greatest to least.

$\frac{10}{11}$, $\frac{2}{9}$, $\frac{7}{15}$

Which statements are true? Select all that apply.

    a. The least fraction is $\frac{2}{9}$ since its value is close to 0.

    b. The greatest fraction is $\frac{10}{11}$ since its value is close to 1.

    c. The middle fraction is $\frac{10}{11}$ since its value is close to $\frac{1}{2}$.

    d. The middle fraction is $\frac{7}{15}$ since its value is close to $\frac{1}{2}$.

    e. The least fraction is $\frac{7}{15}$ since its value is close to 0.

    f. The greatest fraction is $\frac{2}{9}$ since its value is close to 1.

20. Jamal made $\frac{1}{3}$ gallon of lemonade. He plans to pour servings of $\frac{1}{9}$ gallon and wants to know how many servings he will have. Which models correctly represent this situation? Select all that apply.

a.

$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$

$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

b.

$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$	$\frac{1}{9}$

1

c.

d.