

TEST NAME: **Proportions Review**  
TEST ID: **381142**  
GRADE: **07**  
SUBJECT: **Mathematics**  
TEST CATEGORY: **School Assessment**

Student: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

1. Amy jogs  $\frac{1}{3}$  of a mile in  $\frac{1}{15}$  of an hour, while John takes  $\frac{1}{30}$  of an hour to jog  $\frac{1}{5}$  of a mile. If they continued at this rate, who would jog farther in one hour and by how much?
  - A. Amy would jog 1 mile farther than John.
  - B. John would jog 1 mile farther than Amy.
  - C. Amy would jog 2 miles farther than John.
  - D. John would jog 2 miles farther than Amy.
  
2. A recipe for 48 biscuits uses  $2\frac{2}{3}$  cups of biscuit mix. How many biscuits are made from each cup of biscuit mix?
  - A. 6 biscuits
  - B. 18 biscuits
  - C. 30 biscuits
  - D. 128 biscuits
  
3. A pizza shop uses  $\frac{1}{2}$  ounce of pepperoni for every  $\frac{1}{4}$  of a large pizza. How much pepperoni does one large pizza have?
  - A.  $\frac{1}{8}$  ounce
  - B.  $\frac{1}{2}$  ounce
  - C. 1 ounce
  - D. 2 ounce

4. A painter used  $1\frac{1}{2}$  gallons of paint to paint  $\frac{3}{4}$  of a room. At this same rate, how many gallons will it take to paint the whole room?

A.  $\frac{1}{2}$

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

C. 2

D. 6

5. Which problem can be solved by calculating  $\frac{3}{4} \div \frac{1}{2}$ ?

A. A bag of apples is  $\frac{3}{4}$  full. Some friends eat  $\frac{1}{2}$  of the apples in the bag. How much of the bag of apples is left?

B. A person takes  $\frac{1}{2}$  day to type  $\frac{3}{4}$  of an essay. How many essays can the person type in one day?

C. A girl ran  $\frac{3}{4}$  mile on Monday and  $\frac{1}{2}$  mile on Tuesday. How far did the girl run on those two days?

D. A snail crawls  $\frac{1}{2}$  foot in  $\frac{3}{4}$  of an hour. How far will the snail crawl in one hour?

6. A plant grew  $3\frac{1}{4}$  inches over a  $6\frac{1}{2}$ -month period. What was the average monthly growth rate for the plant?
- A.  $\frac{1}{2}$  inch per month
  - B. 2 inches per month
  - C.  $3\frac{1}{4}$  inches per month
7. A cookie recipe needs  $1\frac{1}{3}$  cups of flour to make  $\frac{1}{2}$  batch of cookies. How much flour is needed to make 1 batch of cookies?
- A.  $1\frac{1}{6}$  cups
  - B.  $1\frac{2}{3}$  cups
  - C.  $2\frac{2}{3}$  cups
8. Over a  $3\frac{1}{2}$  year period,  $27\frac{1}{2}$  inches of snow fell in Jackson City. What was the average yearly snowfall in Jackson City?
- A. 31 inches per year
  - B. 24 inches per year
  - C.  $9\frac{1}{4}$  inches per year
  - D.  $7\frac{6}{7}$  inches per year

9. A certain laundry detergent recommends  $\frac{1}{4}$  cup of detergent for a  $\frac{1}{2}$  load of clothes. How much detergent is recommended for 4 loads of clothes?
- A. 1 cup
  - B. 2 cups
  - C. 4 cups
  - D. 8 cups
10. A painter used  $\frac{3}{4}$  of a gallon of paint to cover  $\frac{1}{4}$  of a wall. How many gallons of paint will the painter use for the entire wall?
- A.  $\frac{3}{16}$
  - B.  $\frac{1}{2}$
  - C. 3
  - D. 4
11. A cookie recipe requires  $\frac{3}{4}$  cup of flour to make  $1\frac{1}{2}$  dozen cookies. How much flour is needed to make 1 dozen cookies?
- A.  $\frac{1}{4}$  cup
  - B.  $\frac{1}{2}$  cup
  - C.  $1\frac{1}{8}$  cups
  - D.  $2\frac{1}{4}$  cups

12. Jerry ran  $\frac{3}{4}$  of a mile in  $\frac{3}{20}$  of an hour. What was Jerry's rate of speed?
- A.  $\frac{9}{80}$  miles per hour
  - B.  $\frac{9}{10}$  miles per hour
  - C. 3 miles per hour
  - D. 5 miles per hour

13. A local car wash is open 8 hours each day.
- It uses  $\frac{1}{3}$  of a container of wax for each car.
  - The car wash waxes an average of  $8\frac{1}{2}$  cars per hour.

How many containers of wax does the car wash use in one day?

- A.  $25\frac{1}{2}$
  - B.  $22\frac{2}{3}$
  - C.  $14\frac{2}{3}$
  - D.  $8\frac{1}{6}$
14. Mrs. Richard uses  $115\frac{1}{2}$  cups of flour to make  $2\frac{3}{4}$  dozen cakes. How many cups of flour does Mrs. Richard need to make a dozen cakes?
- A.  $317\frac{5}{8}$  cups
  - B.  $118\frac{1}{4}$  cups
  - C. 42 cups
  - D. 38 cups

15. In a fireplace, about  $\frac{3}{4}$  of an 18-inch log will burn in  $\frac{1}{3}$  of an hour. How many hours will it take to burn  $2\frac{1}{2}$  logs?
- A.  $\frac{3}{4}$  of an hour
- B.  $\frac{9}{10}$  of an hour
- C.  $1\frac{1}{9}$  hours
- D.  $2\frac{1}{4}$  hours
16. Jane put a 12-in. tall bucket under a leak in her sink. The bucket fills at a constant rate of  $\frac{1}{2}$  in. every  $\frac{1}{6}$  of an hour. How many hours will it take to fill the bucket?
- A.  $\frac{1}{12}$
- B.  $\frac{2}{3}$
- C. 3
- D. 4
17. Janelle types at the rate of  $\frac{3}{8}$  of a page per minute. Which statement about Janelle is **true**?
- A. Janelle can type 8 pages in  $\frac{1}{3}$  of a minute.
- B. Janelle can type 2 pages in  $\frac{3}{4}$  of a minute.
- C. Janelle can type  $\frac{1}{2}$  of a page in  $\frac{3}{4}$  of a minute.
- D. Janelle can type  $\frac{1}{4}$  of a page in  $\frac{2}{3}$  of a minute.

