NAME _____ DATE _____ PERIOD _____

Test, Form 1A

Write the letter for the correct answer in the blank at the right of each question.

1. Which fraction represents the ratio *3 roosters out of 10 chickens* in simplest form?

A. $\frac{3}{10}$ **B.** $\frac{1}{3}$ **C.** 3 **D.** $\frac{10}{3}$ 1. **A**

2. Which fraction represents the ratio *2 quarts to 2 gallons* in simplest form?

F. $\frac{1}{8}$ **G.** $\frac{1}{4}$ **H.** $\frac{1}{2}$ **J.** 1 2. **G**

3. Alana buys 3 pounds of potatoes for $2.82. What is the unit price of the potatoes?

A. $9.40 per pound
B. $8.46 per pound
C. $1.41 per pound
D. $0.94 per pound 3. **D**

4. Which rate has the same unit rate as 300 words in 4 minutes?

F. 120 words in 1 minute
G. 200 words in 2 minutes
H. 450 words in 6 minutes
J. 600 words in 5 minutes 4. **H**

5. Which rate is equivalent to 60 miles per hour?

A. 97 kilometers per hour
B. 79 kilometers per hour
C. 58 kilometers per hour
D. 37 kilometers per hour 5. **A**

6. Which measure is the correct metric approximation for 5 gallons?

F. 1.2 liters **G.** 1.3 liters **H.** 8.8 liters **J.** 18.9 liters 6. **J**

7. The cost of 3 burritos is $22.50. If the cost is proportional to the number of burritos ordered, which of the following prices is *not* an equivalent rate?

A. 7 burritos for $51.50
B. 2 burritos for $15.00
C. 5 burritos for $37.50
D. 4 burritos for $30.00 7. **A**

NAME _____ DATE _____ PERIOD _____

Test, Form 1A *(continued)*

8. Chad jogs $4\frac{2}{5}$ miles in $\frac{1}{2}$ hour. What is his average speed in miles per hour?

F. $8\frac{1}{2}$ miles per hour **H.** 11 miles per hour

G. $8\frac{4}{5}$ miles per hour **J.** 22 miles per hour

8. G

9. The graph of the relationship (dogs, cost) is a line that contains the points (0, 0), (4, 12), and (8, 24). What is the constant of proportionality?

A. $\frac{1}{8}$ **B.** $\frac{1}{3}$ **C.** 3 **D.** 8

9. C

10. Which set of numbers is proportional?

F.

Bikes	1	2	3	4
Wheel	2	4	6	8

H.

Students	2	3	4	5
Siblings	4	6	5	8

G.

Pets	1	2	3	4
Feet	4	8	10	14

J.

Students	3	6	9	12
Books	6	12	18	12

10. F

11. Pia used a scale of 1 inch = 2 feet to construct a scale model of her backyard. A tree in the model has a height of 4 inches. What is the actual height of the tree?

A. 8 inches **B.** 2 feet **C.** 4 feet **D.** 8 feet

11. D

12. At the same time a 6-foot person casts a 2-foot shadow, a nearby flagpole casts a 10-foot shadow. How tall is the flagpole?

F. 3 feet **G.** 10 feet **H.** 16 feet **J.** 30 feet

12. J

For Exercises 13 and 14, use similar triangles *ABC* and *FGH*.

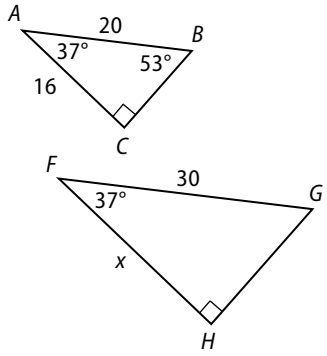
13. What is the value of x?

A. 37

B. 24

C. 18

D. 12



13. B

14. What is the measure of $\angle G$?

F. 37° **G.** 47° **H.** 53° **J.** 90°

14. H