**Review Sheet for Proportional Relationship Test**

 **1.** Which fraction represents the ratio *5 roosters out of 15 chickens* in simplest form?

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

 **2.** Which fraction represents the ratio *2 quarts to 1 gallon* in simplest form?

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

 **3.** Alexandro buys 7 pounds of cauliflower for $10.78. What is the unit price of the cauliflower?

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 **4.** Which rate has the same unit rate as 200 jumps in 5 minutes?

 **F.** 120 jumps in 1 minute

 **G.** 240 jumps in 6 minutes

 **H.** 300 jumps in 8 minutes

 **J.** 900 jumps in 10 minutes

 **7.** The cost of 6 tacos is $13.20. If the cost is proportional to the number of tacos ordered, which of the following prices is *not* an equivalent rate?

 **A.** 2 tacos for $4.40

 **B.** 8 tacos for $17.60

 **C.** 9 tacos for $19.80

 **D.** 3 tacos for $6.20

**8.** LinLo rode her scooter for $\frac{1}{3}$ hour and traveled 2$\frac{1}{6}$ kilometers. What is her average speed in kilometers per hour?

 **9.** The graph of the relationship (dogs, cost) is a line that contains the points (0, 0), (3, 12), and (6, 24). What is the constant of proportionality?

 **A.** $\frac{1}{9}$ **B.** $\frac{1}{4}$ **C.** 4 **D.** 9

**10.** Which statement best describes the relationship in the table?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Months** | 12 | 24 | 36 | 48 |
| **Years** | 1 | 2 | 3 | 4 |

 **F.** The constant of proportionality is 0.

 **G.** The constant of proportionality is 4.

 **H.** The number of months is proportional to the number of years.

 **J.** The number of months is not proportional to the number of years.

**12.** At the same time a 5-foot girl casts a 4-foot shadow, a nearby stop sign casts an 8-foot shadow. How tall is the stop sign?

 **F.** 9 feet **G.** 10 feet **H.** 12 feet **J.** 16 feet

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

**13.** Which statement is *not* true?

 **A.** ∠*H* ≅ ∠*C*

 **B.** $\overbar{AC}$corresponds to $\overbar{FH}$

 **C.** $\overbar{BC}$corresponds to $\overbar{GF}$

 **D.** <*B* ≅ <*G*

**14.** What is the measure of <*H*? \_\_\_\_\_\_\_\_\_

15. What is the measure of <G ? \_\_\_\_\_\_\_\_\_

16. What is the value for x? \_\_\_\_\_\_\_\_\_