**Unit 2 Study Guide (A) Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Use the figures below to write each ratio three ways.**

1. Shaded figures to total figures 2. Stars to shaded figures

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solve.**

3. Out of 56 students in the class, 18 wear glasses. What is the ratio of students in the class that wear glasses to those that do not wear glasses?

**Find the Unit Rate.**

4. 230 miles per 4 gallons 5. 180 words in 4 minutes

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6. $63.60 for 8 comic books 7. 390 miles in 6 hours

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**Which is the better buy?**

8. 10 pounds of beef for $12.60 or 5 pounds of beef for $6.10

9. 3 cans of mountain dew for $1.27 or 5 cans of mountain dew for $1.79.

**Solve each problem.**

10. A teacher had 21 red pens. If the ratio of red pens to blue pens she owned was 3:1, how many pens did she have total?

11. A chess player played 20 games total. If he won 2 of the games, what is the ratio of games he lost to games he won?

12. At Six Flags, 1,473 people entered the park in 3 hours. How many people entered the park in one hour?

13. Gas mileage is the average number of miles you can drive a car per gallon of gasoline. A test of a new car resulted in 2,250 miles being driven using 125 gallons of gas. Find the car’s gas mileage.

**Use equivalent ratios to complete the table. Then plot the ordered pairs on the coordinate plane.**

14.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Hours** | 1 | 2 | 3 | 4 | 5 |
| **Miles** | 15 | 30 | 45 |  |  |

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**Solve each of the following proportions.**

|  |  |  |
| --- | --- | --- |
| 15**.** $\frac{40}{12}=\frac{n}{3}$ | 16.$\frac{10}{k}=\frac{6}{12}$ | 17.$\frac{6}{p}=\frac{5}{90}$ |