

CH 1 STEAM REVIEW

Numeric Response

Enter the appropriate value to answer the question or solve the problem.

1. Carlo attends art class every 4 weeks, chess club every 2 weeks, and fencing lessons every 3 weeks. If he attended all three this week, in how many weeks will he attend all three again?

2. On his fruit stand, Mr. Roberts has 13 papayas, 23 star fruits, 35 mangos, and 19 strawberries. What is the ratio of the number of mangos to the total number of pieces of fruit?

3. Ms. Sims traveled to 42 countries in 60 days. At this rate, how many countries would she travel to in 40 days?

Countries	42		■
Days	60		40

4. Suppose 40 out of 90 people are bowlers and 3 out of every 16 of the bowlers have their own bowling ball. At the same rates, in a group of 192 people, predict how many you would expect to have a bowling ball.

5. A particular amusement park ride will make 156 revolutions in 180 seconds. At this rate, how many revolutions will it make in 2 minutes?

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Subjective Short Answer

6. In a certain area, there are 35 houses to 55 businesses. Write the ratio of houses to businesses as a fraction in simplest form. Then explain its meaning.

7. The table shows results of a survey about the types of video games students own. Find the ratio of the number of video games rated Everyone 10+ to the total number of video games.

Ratings Video Games	
Rated	Number of Games
Early Childhood	133
Everyone	130
Everyone 10+	140
Teen	212

Write each ratio as a unit rate.

8. 216 diving students to 12 instructors

9. 630 meters in 18 seconds

Name: _____ Class: _____ Date: _____

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10. After working for 25 hours, Lamar made \$375. After working for 40 hours, Lamar made \$600. Predict how much he would make after 10 hours of work.

11. Determine if the rates \$168 raised for washing 24 cars and \$280 raised for washing 40 cars are equivalent. Explain your reasoning.

12. Nina can type 45 words per minute. Write the ordered pairs (number of minutes, number of words) Nina can type for 0, 1, 2, and 3 minutes.

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Answer Key

1. 12

2.

$$\frac{7}{18}$$

3. 28

4. 16

5. 104

6. $\frac{7}{11}$; For every 7 houses, there are 11 businesses.

7. $\frac{28}{123}$

8. $\frac{18 \text{ students}}{1 \text{ instructor}}$

9. $\frac{35 \text{ meters}}{1 \text{ s}}$

10. \$150

11. Yes; the unit rates are the same, $\frac{\$7}{1 \text{ car}}$

12. (0, 0), (1, 45), (2, 90), (3, 135)