5.4

Graphing Ratios

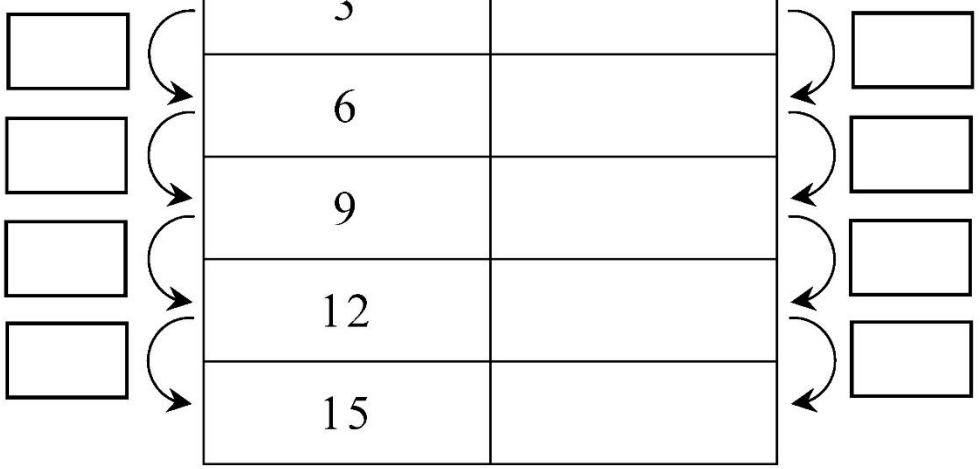
Activity 3

Work with a partner. The graph on the next page shows the values from the ratio table for your teacher's frosting.

a. Complete the table and the graph on the next page.

b. Explain the relationship between the entries in the ratio table and the points on the graph.

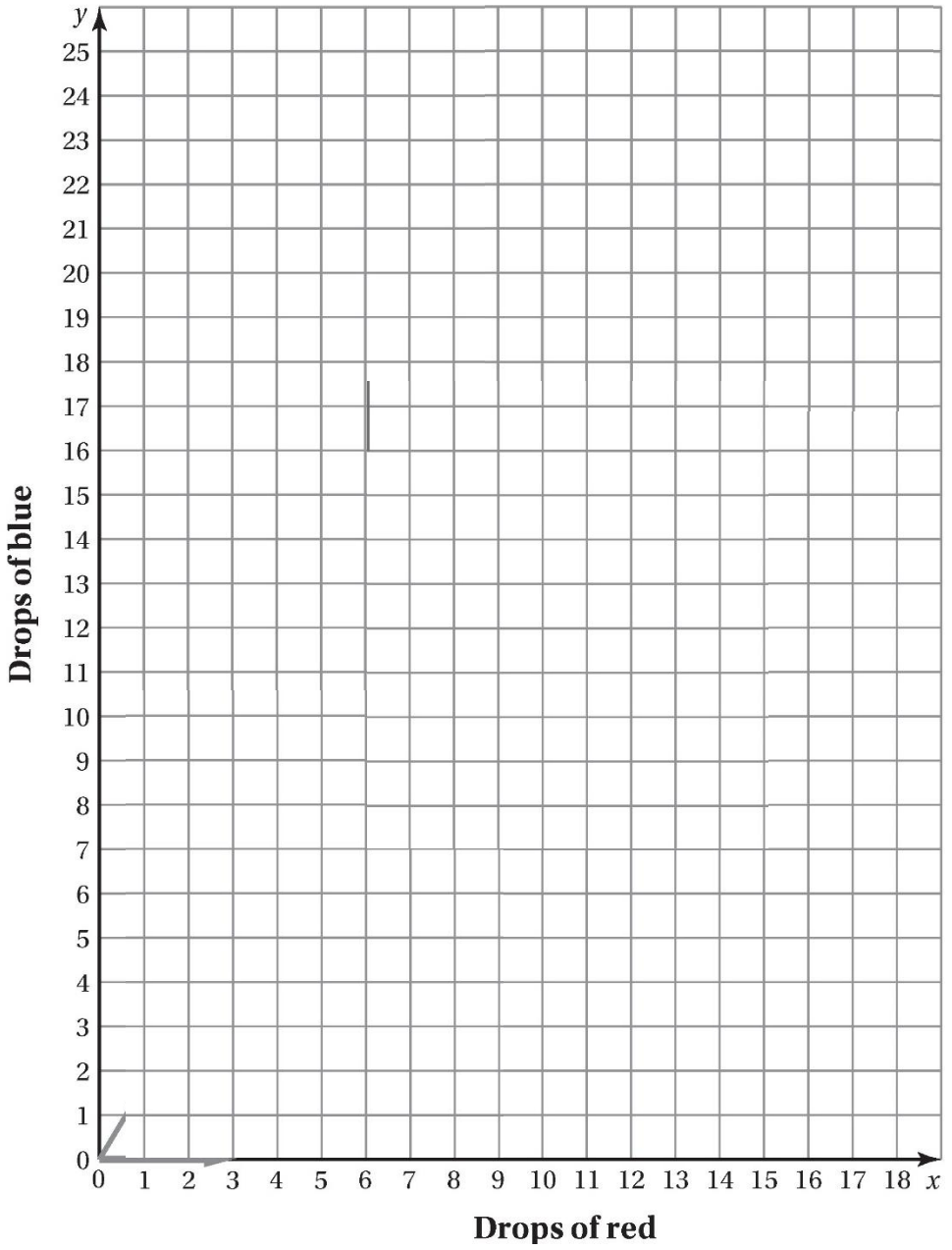
Your Teacher's Frosting	
Drops of Red	**Drops of Blue**
3	
6	
9	
12	
15	



Activity 3

c. How is this graph similar to the graph in Activity 2? How is it different?

d. How can you use the graphs to determine whose frosting has more red or blue in it? Explain.



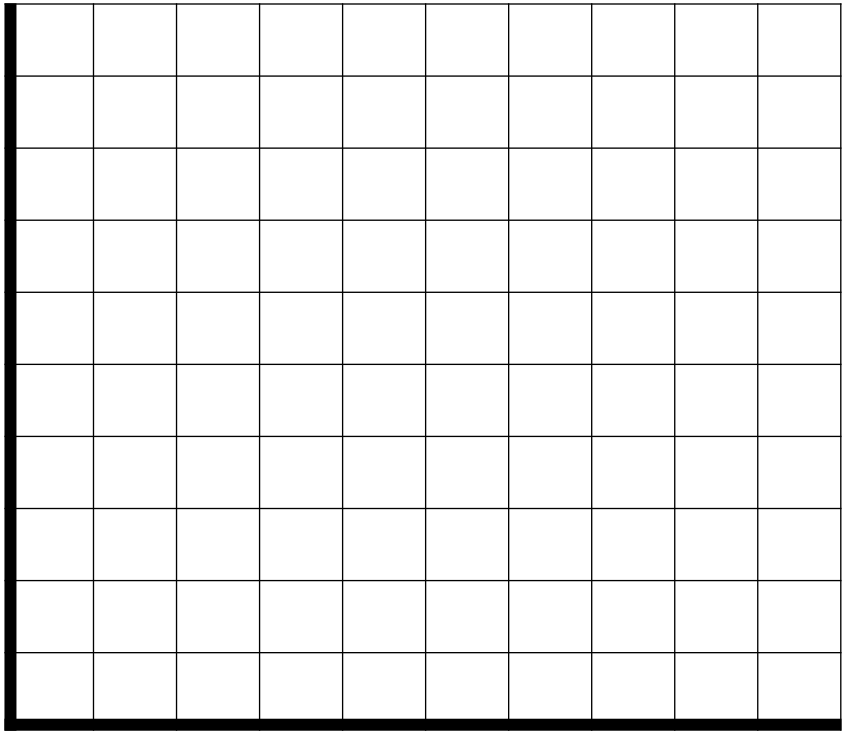
What Is Your Answer?

b. Graph the ordered pairs (time, height) from the tables in part (a). What can you conclude?

Write the ordered pairs.

Balloon: (3, 9), (6, 18), (9, 27), (12, 36)

Blimp: (2, 7), (4, 14), (6, 21), (8, 28)



14.1-14.4

Review

You have the 5.1 – 5.3 Quiz tomorrow!!!

- **5.1 Ratios and Rates**
- **5.2 Proportions**
- **5.3 Writing Proportions**

- We will be reviewing in class today

- So, do we have homework tonight? Check your stamp sheet!

5.1 - Ratios and Rates

Write the ratio as a fraction in simplest form

1) **15 messages: 3 people**

2) **7 candy bars to 42 lollipops**

3) **945 jellybeans for $9**

5.1 - Ratios and Rates

4) ***Use the ratio table to find the unit rate with the specified units:***

gallons per hour

Hours	3	6	9	12
Gallons	10.5	21	31.5	42

14.1 - Ratios and Rates

Use the ratio table to find the unit rate with the specified units.

5) Cost per cookie box.

Cookie boxes	3	6	9	12
Cost	$1.20	$2.40	$3.60	$4.80

14.2 - Proportions

Tell whether the ratios form a proportion. Explain how you know.

6) $\frac{4}{7}, \frac{12}{21}$

7) $\frac{8}{9}, \frac{21}{36}$

14.2 - Proportions

Tell whether the two rates form a proportion. Show how you know.

8) 35 balloons in 5 baskets ; 42 balloons in 6 baskets

9) 100 bunnies: 25 cages ; 50 bunnies: 20 cages

14.3 – Writing Proportions

10) Use the table to write a proportion

	Potato Pizza	Potato Ice Cream
Dollars	**15**	**20**
Pounds	**5**	**p**

14.3 – Writing Proportions

11) Use the table to write a proportion

	Monday	Tuesday
Texts	**t**	**40**
Minute	**9**	**10**

14.3 – Writing Proportions

12) Solve the proportion

$$\frac{x}{20} = \frac{5}{100}$$

14.3 – Writing Proportions

13) One day, you hike 5 miles in 30 minutes. The next day, you hike 20 miles in 110 minutes. Are these rates proportional? Explain.

14.3 – Writing Proportions

14) In the first annual pie-eating contest, you eat 16 pies in 2 minutes. In the second annual pie-eating contest, you eat 48 pies in 3 minutes.

Are these rates proportional? Explain.

14.4 – Solving Proportions

Solve the Proportion

15) $\frac{x}{4} = \frac{2}{5}$

16) $\frac{x}{75} = \frac{4}{8}$