

Chapter 5 QUIZ Whiteboard Review

Write the ratio as a fraction in simplest form.

1. 26 cats : 14 dogs

2. 6 weeks to 24 days

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

3. calories per day

Days	0	2	4	6
Calories	0	15	30	45

4. cost per ounce

Ounces	3	6	9
Cost	\$0.45	\$0.90	\$1.35

Tell whether the ratios form a proportion. You must show work to support your answer!

5. $\frac{2}{9}$, $\frac{12}{45}$

6. $\frac{8}{12}$, $\frac{24}{36}$

7. On Monday, you got paid \$8 for 24 minutes of work. On Tuesday, you got paid \$18 for 45 minutes of work. Are these rates proportional?

8. An amusement park sells 4 bottles of water for every 3 bottles of juice. In one hour, the amusement park sells 24 bottles of water. How many bottles of juice does the amusement park sell in one hour?

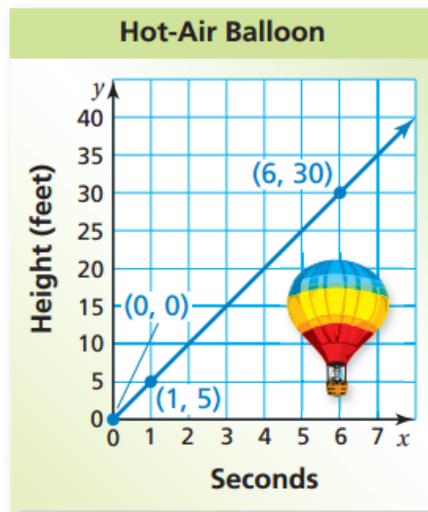
9. The graph shows height of a hot-air balloon.

a. What does the point (6, 30) represent?

b. Does the graph represent a proportional relationship?

How do you know?

c. What is the unit rate?



10. You can buy 4 pens for \$6.16 or 5 pens for \$7.65. Which is the better buy?

4 pens cost (unit price):

5 pens cost (unit price):

Better buy:

Answer Key

1. 13 to 7
2. 7 to 4 (make sure to convert units when you can to make them the same!)
3. 7.5 cal/day
4. \$0.15/oz
5. NO
6. YES
7. NO \$0.33/min versus \$0.40/min
8. 18 bottles
9. a) in 6 seconds the balloon rises 30 feet
b) Yes this is a proportional relationship – it is a straight LINE and it passes through the ORIGIN
c) 5 feet/sec
10. 4 pens cost \$1.54 each
5 pens cost \$1.53 each
Buying 5 pens is the better buy (lower price per pen).