

Name \_\_\_\_\_

## Comparing Ratios Packet

### Where Does An Umpire Like To Sit When He Is Eating Dinner?

Write the letter of each answer in the box containing the exercise number.

**Write a rate that represents the situation.**

1. 45 meters in 6 seconds
2. 3 meters in 4 seconds
3. 2.80 meters in 5 seconds
4. 12 meters in 3 seconds
5. 35 meters in 20 seconds
6. 10 meters in 60 seconds

**Write a unit rate for the situation.**

7. \$45.00 for 9 pounds
8. \$24 for 3 pounds
9. \$390 for 6 pounds
10. \$42 for 21 pounds
11. \$180 for 10 pounds
12. \$864 for 8 pounds

**Decide whether the rates are equivalent.**

13. 9 miles in 3 hours  
27 miles in 6 hours
14. 152 points in 8 games  
171 points in 9 games

#### Answers

- T. \$108 per pound
- P. 35 meters : 20 seconds
- E. 45 meters : 6 seconds
- B. 12 meters : 3 seconds
- E. \$8 per pound
- T. 3 meters : 4 seconds
- I. 2.80 meters : 5 seconds
- A. \$18 per pound
- L. \$5 per pound
- D. 10 meters : 60 seconds
- H. \$65 per pound
- N. \$2 per pound
- E. yes
- H. no

4	1	9	3	10	6		12	13	8		5	7	11	2	14
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## What Do You Call A Frog With A Cast On Each Of Its Back Legs?

Write the letter of each answer in the box containing the exercise number.

Determine which car gets the better gas mileage.

1.

Car	A	B
Distance (miles)	180	175
Gallons Used	6	7

Y. Car A                      Z. Car B

2.

Car	A	B
Distance (miles)	234	140
Gallons Used	9	5

N. Car A                      O. Car B

3.

Car	A	B
Distance (miles)	400	630
Gallons Used	20	18

T. Car A                      U. Car B

4.

Car	A	B
Distance (miles)	315	228
Gallons Used	15	12

P. Car A                      Q. Car B

Determine which is the better buy.

5.

Apples	A	B
Cost (dollars)	3.75	4.50
Pounds	3	5

M. Brand A                      N. Brand B

6.

Toothpaste	A	B
Cost (dollars)	2.64	3.60
Ounces	6	8

P. Brand A                      Q. Brand B

7. Participant A did 120 jumping jacks in 10 minutes. Participant B did 140 jumping jacks in 14 minutes. Which participant had the greater jumping jack rate?

H. Participant A

I. Participant B

3	5	7	2	4	6	1
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Determine which car gets the better gas mileage.

1.

2.

3. Determine which is the better buy.

Car	A	B
Distance (miles)	130	125
Gallons used	8	9
Cost (dollars)	13	18
Downloads	10	15

4.

Car	A	B
Distance (miles)	400	440
Gallons used	12	15
Cost (dollars)	5	2
Pens	20	7

5. Protein Bar A has 15 grams of protein in a 40 gram bar. Protein Bar B has 20 grams of protein in a 60 gram bar. Which bar has more protein per gram?

Complete the ratio tables and graph the ordered pairs from the table. What can you conclude?

6.

Miami, FL	
Time (min)	Temperature Drop (F)
5	2
10	
15	
20	

Orlando, FL	
Time (min)	Temperature Drop (F)
3	1
6	
9	
12	

7. You are choosing a song for your dance recital. Song A has 11 beats in 10 seconds. Song B has 7 beats in 6 seconds. Which song has the greater rate?

Determine which car gets the better gas mileage.

1.

Car	A	B
Distance (miles)	510	550
Gallons used	18	20

2.

Car	A	B
Distance (miles)	460	430
Gallons used	35	32

Determine which is the better buy.

3.

Tissues	A	B
Cost (dollars)	4.50	3.25
Boxes	5	3

4.

Frozen Waffles	A	B
Cost (dollars)	2.29	3.59
Waffles	8	12

Complete the ratio tables and graph the ordered pairs from the table. What can you conclude?

5.

Ranch Dressing	
Tablespoons	Milligrams of Sodium
4	580
8	
12	
16	

Ketchup	
Tablespoons	Milligrams of Sodium
3	400
6	
9	
12	

6. The deli offers a fruit salad with 5 blueberries for every 3 pieces of cantaloupe. The deli changes the mixture to have 6 blueberries for every 4 pieces of cantaloupe, but the number of pieces of fruit in the salad does not change.
- Create a ratio table for each salad. How many blueberries are in the smallest possible salad?
  - Blueberries cost less than cantaloupe. Should the company charge more or less for the new salad? Explain your reasoning.