

# RATIOS & RATES

## WORD PROBLEMS

### TASK CARDS

Ratios & Rates Task Card # 3

A group of 10 friends are in line to play miniature golf. The table shows how much different groups

Factors & Multiples

Ratios & Ratio Tables

Unit Rate & Unit Price

Rate & Ratio Problems

Number in Group	3	5	6	12
Amount Paid (\$)	15	25	30	60



### Ratios & Rates Task Card # 1

A warehouse has three shelves that can hold 8, 12, or 16 lamps. Each shelf has sections holding the same number of lamps. What is the greatest number of lamps that can be put in a section?

### Ratios & Rates Task Card # 2

A video store is having a sale where you can buy 2 new-release DVDs for \$22 or you can buy 4 new-release DVDs for \$40. Are these rates equivalent? Explain your reasoning.

### Ratios & Rates Task Card # 3

A group of 10 friends are in line to play miniature golf. The table shows how much different groups will pay in all. Predict how much the group of 10 will pay.

Number in Group	3	5	6	12
Amount Paid (\$)	15	25	30	60

### Ratios & Rates Task Card # 4

The Brooklyn Skyhawks won 5 of their first 7 games this year. There are 28 games in the season. About how many games would you expect the Skyhawks to win this season?

Ratios & Rates Task Card # 5

Four friends paid a total of \$32 for bowling. What is the ratio \$32 for 4 people written as a unit rate?

Ratios & Rates Task Card # 6

Shani can type 90 words in 4 minutes. About how many words would you expect her to type in 10 minutes at this rate?

Ratios & Rates Task Card # 7

A 2-liter bottle of apple cider costs \$2.02. A 3-liter bottle of the same apple cider costs \$2.79. Which is the better deal?

Ratios & Rates Task Card # 8

A brownie recipe that yields 48 brownies calls for 2 cups of flour. A different brownie recipe that yields 60 brownies calls for 3 cups of flour. Are these rates equivalent? Explain your reasoning.

### Ratios & Rates Task Card #9

Anna has 15 apples, 9 oranges, and 18 mangoes. She wants to put all of the fruit into decorative baskets. Each basket must have the same number of pieces of fruit in it. Without mixing fruits, what is the greatest number of pieces of fruit that Anna can put in each basket?

### Ratios & Rates Task Card #10

Jasmine make 5 cups of punch by mixing 3 cups of grape juice with 2 cups of apple juice. How much grape juice and how much apple juice does Jasmine need to make four times the original recipe?

### Ratios & Rates Task Card #11

Two bagels from Lenny's Healthy Goodies have 230 Calories. How many calories would you expect to be in 5 of the same bagels?

### Ratios & Rates Task Card #12

At the comic book store, Wayne bought 3 comic books for \$6. Clyde bought 5 comic books for \$10. Are these rates equivalent? Explain your reasoning.

Ratios & Rates Task Card # 13

A particular sherbert ice-cream has 75 calories in 2 ounces. How many calories are in 8 ounces of the sherbert ice-cream?

Ratios & Rates Task Card # 14

On a hiking trip, Marilyn notes that she hikes about 12 kilometers every 4 hours. If she continues at this rate, determine how many kilometers she could hike in 6 hours.

Ratios & Rates Task Card # 15

Justin is 16 years old and his sister Mya is 12 years old. What will be the ratio of Justin's age to Mya's age in 2 years? Write as a fraction in simplest form.

Ratios & Rates Task Card # 16

One school survey showed that 3 out of 5 students wear glasses. Another survey showed that 6 out of 11 students wear glasses. Are these results equivalent? Explain your reasoning.

### Ratios & Rates Task Card # 17

A recipe that will make 3 blueberry pies calls for 7 cups of flour. Find how many blueberry pies can be made with 28 cups of flour.

### Ratios & Rates Task Card # 18

Shirley wants to put 45 tomato plants, 81 zucchini plants, and 63 cucumber plants in her garden. If she puts the same number of plants in each row and if each row has only one type of plant, what is the greatest number of plants that Shirley can put in one row?

### Ratios & Rates Task Card # 19

Amanda can do 60 push-ups in 2 minutes. Marvin can do 150 push-ups in 5 minutes. Are these rates equivalent? Explain your reasoning.

### Ratios & Rates Task Card # 20

At Japers Fruit Market, the cost of 10 plums is \$1. What is the cost of 5 dozen plums?

Ratios & Rates Task Card # 21

Shateek charges \$10 for every 5 bags of leaves he rakes. Last weekend, he raked 24 bags of leaves. How much money did he earn?

Ratios & Rates Task Card # 22

A candy store sells snacks by weight. A six-ounce bag of candy costs \$3.60. Predict the cost of a two-ounce bag.

Ratios & Rates Task Card # 23

Mrs. Williams pays Fatia \$48 for babysitting 6 hours, and Mr. Abdullah pays her \$67.50 for babysitting 9 hours. Who pays Fatia the better salary? Explain your answer.

Ratios & Rates Task Card # 24

Juan read 4 pages in a book in 6 minutes. How long would you expect him to take to read 6 pages at this rate?

Ratios & Rates Task Card # 25

Brian buys 12 notebooks for \$9. Use a ratio table to determine how much Brian will pay for 8 binders.

Ratios & Rates Task Card # 26

Karen can buy an 8-pound box of laundry detergent for \$7.40 or a 4-pound box of the same laundry detergent for \$5.38. Which is the better buy?

Ratios & Rates Task Card # 27

Arnold can read 3 pages in 7 minutes. Brenda can read 8 pages in 14 minutes. Who is the faster reader? Justify your answer.

Ratios & Rates Task Card # 28

Angie used 4 apples and 5 strawberries in her fruit salad. Salim used 7 apples and 9 strawberries. Did Angie and Salim use the same ratio of apples to strawberries? If not, who used the greater ratio of apples to strawberries?



Ratios & Rates Task Card # 29

Abalone Factory produces 6 scooters in 9 hours. Find how many hours it takes to produce 16 scooters at this rate.

Ratios & Rates Task Card # 30

On the Johnson's vacation to Virginia, they drove 120 miles in 2 hours before stopping for dinner. After dinner they drove 180 miles in 3 hours before stopping for gas. Are these rates equivalent? Explain your reasoning.

Ratios & Rates Task Card # 31

In a recent NBA season, the New York Knicks won 4 games and the San Antonio Spurs won 5 games. What is the ratio of wins for the Knicks to wins for the Spurs?

Ratios & Rates Task Card # 32

Lenny's Famous Pizzeria sells 30 slices of pizza every 15 minutes. Predict how many slices the pizzeria sells every hour.

Ratios & Rates Task Card # 33

The B-44 bus arrives at the bus stop every 25 minutes, and the B-15 bus arrives every 15 minutes. Both are at the bus stop right now. In how many minutes will both be at the bus stop again?

Ratios & Rates Task Card # 34

A Caribou bull can run 96 miles in 3 hours. At this rate, how far can a Caribou bull run in 1 hour?

Ratios & Rates Task Card # 35

Every Friday, Delicious Donuts offers a discount price of \$3.50 for 4 donuts. What is the price per dozen?

Ratios & Rates Task Card # 36

Roger paid \$12 for 4 packs of football trading cards. How many packs of football trading cards can he purchase for \$21?

Ratios & Rates Task Card # 37

Carol has 10 rosebushes, 2 of which produce red roses. Write the ratio 2 red rosebushes out of 10 rosebushes in simplest form.

Ratios & Rates Task Card # 38

At a warehouse, the employees can unload 18 crates in 6 hours. What is the unit rate for unloading crates?

Ratios & Rates Task Card # 39

The ratio of girls to boys in math class is 4 to 5. How many boys are in the class if there are 12 girls in the class?

Ratios & Rates Task Card # 40

The Singh family paid \$15.75 for 3 ticket to an amusement park. How much would they have paid for 12 tickets?

Name \_\_\_\_\_

## Task Card Recording Sheet

1.	2.	3.	4.
5.	6.	7.	8.
9.	10.	11.	12.
13.	14.	15.	16.
17.	18.	19.	20.
21.	22.	23.	24.
25.	26.	27.	28.
29.	30.	31.	32.
33.	34.	35.	36.
37.	38.	39.	40.

**ANSWER KEY****Ratios & Rates Task CARDS**

1. 4 lamps	2. No; $\frac{\$11}{DVD} \neq \frac{\$10}{DVD}$	3. \$50	4. 20 games
5. \$8 per person	6. 225 words	7. 3-liter bottle	8. No; $\frac{24}{1 \text{ cup}} \neq \frac{20}{1 \text{ cup}}$
9. 3 pieces of fruit	10. 12 cups grape juice, 8 cups apple juice	11. 575 Calories	12. Yes; $\frac{3}{\$6} = \frac{5}{\$10}$
13. 300 calories	14. 18 km	15. $\frac{9}{7}$	16. No; $\frac{3}{5} \neq \frac{6}{11}$
17. 12 pies	18. 9 plants	19. Yes; $\frac{30 \text{ push-ups}}{1 \text{ min}}$	20. \$6
21. \$48	22. \$1.20	23. Mrs. Williams; \$8 > \$7.50	24. 9 min
25. \$6	26. 8-pound box	27. Brenda; $\frac{8}{14} = \frac{4}{7}, \frac{4}{7} > \frac{3}{7}$	28. No; Angie used the greater ratio
29. 24 hours	30. Yes; the unit rate for each is $\frac{60\text{mi}}{1 \text{ h}}$	31. $\frac{4}{5}$	32. 120 slices per hour
33. 75 min	34. 32 mi	35. \$10.50	36. 7 packs
37. 1 – 5	38. 3 crates per hour	39. 15 boys	40. \$63

Thank you so much for downloading this resource! You can get more resources like this at [Exceeding the CORE!](#)

You may also want to check out:

