



Solve each problem.

Answers

- 1) During Christmas a book store sold 72 books. If the ratio of books to bookmarks sold was $9 : 2$, how many bookmarks did the store sell?
- 2) A fast food restaurant sold 35 burgers with cheese. If the ratio of burgers sold with cheese compared to without cheese was $7 : 3$, how many burgers did they sell total?
- 3) Adam had 91 dollars. If he spent 21 dollars on new books, what is the ratio of money he still has to money he's spent?
- 4) At an ice cream shop the ratio of sugar cones sold to waffle cones sold is $6 : 5$. If there are 42 sugar cones sold, how many waffles cones would be sold?
- 5) During a class election the ratio of students who voted for candidate A compared to candidate B was $2 : 1$. If candidate A received 14 votes, what is the combined amount of votes candidate A and candidate B received?
- 6) For an art show, an artist painted 153 pictures. During the show he sold 72 of his pictures. What is the ratio of pictures he still has to pictures he sold?
- 7) At summer camp the ratio of boys to girls was $5 : 4$. If there were 40 boys, how many girls were there?
- 8) While completing a race, Ned spent 63 minutes walking. If his ratio of time walking to jogging was $9 : 1$, how many minutes did he spend completing the race?
- 9) Dave spent 21 minutes completing a race. He walked 9 minutes and jogged the rest. What is the ratio of time he jogged to time he walked?
- 10) Henry was playing checkers with a friend. The ratio of games Henry won was $9 : 4$. If Henry won 36 games, how many games did his friend win?

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

**Solve each problem.**

- 1) A classroom had 35 glue sticks. If the ratio of glue sticks to glue bottles was $5 : 2$, how many glue bottles did the classroom have?
- 2) A student finished 8 of her homework problems in class. If the ratio of problems she finished to problems she still had left was $4 : 1$, how many homework problems did she have total?
- 3) On a Saturday, a library checked out 52 books. If 24 of the books were fiction, what is the ratio of non-fiction books to fiction books checked out?
- 4) A recipe called for the ratio of sugar to flour to be $10 : 3$. If you used 70 ounce of sugar, how many ounces of flour would you need to use?
- 5) At a bake sale there were 72 raisin cookies sold. If the ratio of raisin cookies sold to oatmeal cookies sold was $9 : 1$, what is the combined amount of raisin and oatmeal cookies sold?
- 6) Kaleb had 136 songs on his MP3 player. If he deleted 56 songs, what is the ratio of songs he kept to songs he deleted?
- 7) The ratio of red cars to blue cars in a parking lot was $5 : 3$. If there were 40 red cars, how many blue cars were there?
- 8) A produce store sold 63 red apples. If the ratio of red apples to green apples sold was $7 : 2$, what is the combined amount of red and green apples sold?
- 9) For homework, a student had to complete 15 problems total. If she finished 6 problems in class, what is the ratio of problems she still needs to complete to problems that she's already finished?

At a farm the ratio of cows to horses was $9 : 2$. If there were 72 cows at the farm, how many horses were there?

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Name _____



COMPARING UNIT RATES #2



Directions: Compare each of the items on sale below. Calculate the unit rate for each set of items. Then use the unit rate to determine which item gives you the best value. Circle the item/unit rate with the best value.

1.

B-Ball Tickets	Total Cost	# of Tickets	Unit Rate (\$\$/Ticket)
Bulls	\$108	4 Tix	\$27 per ticket
Lakers	\$231	7 Tix	
Knicks	\$78	2 tix	

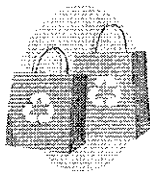


2.

Nachos	Total Cost	Ounces	Unit Rate (\$\$/Ounce)
Medium	\$5.00	20 oz.	
Large	\$6.50	25 oz.	
Jumbo	\$7.20	30 oz.	

3.

Hats	Total Cost	# of Hats	Unit Rate (\$\$/Hat)
Store A	\$24	2	
Store B	\$51	3	
Store C	\$75	5	

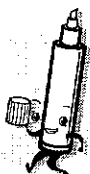


4.

Gift-Wrap	Total Cost	Square Inches	Unit Rate (\$\$/sq. inch)
Necklace	\$1.80	18 in.	
Shoes	\$3.24	108 in.	
Game	\$3.60	90 in.	

5.

Markers	Total Cost	# of Packs	Unit Rate (\$\$/Pack)
Store A	\$9	3 packs	
Store B	\$8	2 packs	
Store C	\$6	1 pack	



6.

Markers	Total Cost	# of Markers	Unit Rate (\$\$/marker)
Store A	\$3	12	
Store B	\$4	20	
Store C	\$6	40	

7.

French Fries	Total Cost	# of Orders	Unit Rate (\$\$/Order)
McDonald's	\$6.00	5	
Wendy's	\$2.80	2	
Burger King	3.90	3	



8.

French Fries	Total Cost	# of Fries	Unit Rate (\$\$/Fry)
McDonald's	\$1.20	40 fries	
Wendy's	\$1.40	35 fries.	
Burger King	\$1.30	65 fries	

9. Use the blank table to answer the following question:

Store A sells 4 notebooks for \$7.00.
 Store B charges \$5.40 for 3 notebooks.
 Store C sells 10 notebooks for \$18.00.
 Which store offers the best value?

Name _____

WORD PROBLEMS--RATES #1

Directions: Find the rate in each problem below. There are several ways to solve *rate problems*. The simplest strategy is to simply divide the data. The key is to divide the data in the correct order. If the question asks you to find the *miles/hour*, then you should find the quotient of the miles divided by the hours, *not* the hours divided by the miles.

- 1) John spent \$36 to buy 4 basketballs. What was the price per basketball? 1) _____
- 2) Tracey ran 1,000 meters in 5 minutes. How many meters/minute did she run? 2) _____
- 3) Mike paid \$68 for 4 pizzas. How much did he pay per pizza? 3) _____
- 4) Isabella flew 600 miles in 120 minutes. How many miles per minute did she fly? 4) _____
- 5) In 3 days, the temperature dropped 27 degrees. How many degrees per day did the temperature drop? 5) _____
- 6) Ava read 110 books in 11 months. How many books per month did she read? 6) _____
- 7) Jayden filled his 290 gallon pool with water in 10 hours. How many gallons per hour did he use? 7) _____
- 8) Addison drove 1,080 miles in 20 hours. What was her speed in miles per hour? 8) _____
- 9) Jackson made 252 calls in 36 days. What is the average number of calls he made in a day? 9) _____
- 10) Hailey's plane climbed 4,500 feet in 90 seconds. How fast did her plane climb every second? 10) _____
- 11) It took Jacob 3 minutes to drive 18 laps. How many laps per minute did he run? 11) _____
- 12) Sophia earned \$480 in 32 hours. How many dollars did she earn per hour? 12) _____
- 13) Aiden scored 228 points in 12 games. What is his scoring rate in points/game? 13) _____