

Unit Rates Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

What is a unit rate?	
what is a unit rate:	
Hint: Think about how a unit rate compares quantities.	
A) A comparison of two different quantities	
○ B) A rate that compares a quantity to one unit of another quantity	
○ C) A measure of speed	
OD) A type of graph	
A unit rate is a rate that compares a quantity to one unit of another quantity.	
Which of the following are examples of unit rates? (Select all that apply)	
Hint: Look for rates that compare quantities to one unit.	
☐ A) 50 miles per hour ✓	
☐ B) 3 apples	
C) \$5 per item ✓	
D) 10 liters	
Examples of unit rates include rates that express a quantity per one unit of another quantity.	

Explain why unit rates are useful in everyday life.

Hint: Consider how unit rates help in making comparisons.



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Unit rates help us compare prices, speeds, and other quantities in a standardized way.
List two operations involved in calculating a unit rate.
Hint: Think about the mathematical operations used.
1. Operation 1
Division
2. Operation 2
Multiplication
Calculating a unit rate typically involves division and sometimes multiplication.
What operation is primarily used to calculate a unit rate?
Hint: Consider the main mathematical operation involved.
○ A) Addition
O B) Subtraction
C) Multiplication
○ D) Division ✓

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Division is the primary operation used to calculate a unit rate.



Part 2: Comprehension and Application

If a car travels 180 miles in 3 hours, what is the unit rate in miles per hour?
Hint: Divide the total miles by the total hours.
○ A) 30 miles per hour
O B) 60 miles per hour ✓
○ C) 90 miles per hour
○ D) 180 miles per hour
The unit rate is calculated by dividing 180 miles by 3 hours, resulting in 60 miles per hour.
Which of the following scenarios involve calculating a unit rate? (Select all that apply)
Hint: Look for scenarios that require a comparison to one unit.
A) Determining the cost per pound of fruit ✓
B) Measuring the height of a building
☐ C) Calculating the speed of a runner ✓
D) Counting the number of students in a class
Scenarios that involve calculating a unit rate include those that compare quantities to one unit.
Describe how you would find the unit rate for the price of apples if 10 apples cost \$15.
Hint: Think about the calculation needed to find the price per apple.
To find the unit rate, divide the total cost by the number of apples to find the cost per apple.
You buy 8 gallons of milk for \$24. What is the cost per gallon?
Hint: Divide the total cost by the number of gallons.
○ A) \$2

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8) \$3 ✓ C) \$4 D) \$5	
he cost per gallon is calculated by dividing \$24 by 8 gallons, resulting in \$3 per gallon.	
or travels 300 miles using 10 gallons of fuel. Calculate the fuel efficiency in miles per	gallon.
Think about how to express the distance per gallon of fuel.	
	/1
o calculate fuel efficiency, divide 300 miles by 10 gallons, resulting in 30 miles per g	allon
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Scenarios that involve unit rates include those that compare quantities to one unit.
Explain how converting units can affect the calculation of a unit rate.
Hint: Consider how different units can change the outcome.
Converting units can change the values being compared, thus affecting the unit rate calculation
Touristing units can change the values being compared, thus affecting the unit rate calculation
If two stores offer different unit rates for the same product, what should you consider to determine the better buy?
Hint: Think about what factors influence your purchasing decision.
○ A) The total cost
O B) The unit rate ✓
C) The brand name
O) The location of the store
To determine the better buy, consider the unit rate as it reflects the cost per unit.
Evaluate the following unit rates and select the best option for buying apples. (Select all that apply
Hint: Look for the lowest cost per apple.
□ B) \$6 for 4 apples ✓
C) \$7 for 5 apples
D) \$10 for 8 apples
The best option will have the lowest cost per apple when evaluated.
Create a real-world problem involving unit rates and provide a solution.
Hint: Think about a scenario where unit rates are applicable.

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A real-world problem could involve comparing prices or speeds, and the solution should demonstrate the calculation of a unit rate.
List two factors that might influence your decision when choosing between two different unit rates for a product.
Hint: Consider what aspects are important in your decision-making process.
1. Factor 1
Quality
2. Factor 2
Brand

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Factors may include quality, brand, total cost, and personal preferences.