

Name _____

Mrs. Doolan/Math6

10-6: Solving Proportions Using Unit Rates



Objective: I'll learn to find the unit rate of a proportion.

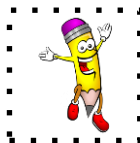
Unit rate: a comparison in which the second number in the comparison is to one unit.

Examples: 25 gallons per 1 minute, or, \$1.50 per 1 cupcake.



To find a unit rate of a proportion:

1. Simplify the proportion so it is a comparison to one unit.



Example #1: Whole Foods sells granola by the pound. Lucy's granola weighed 8 pounds. The cashier charged her \$12. What was the price per pound?



$$\frac{\$12}{8 \text{ pounds}} = \frac{12 \div 8}{8 \text{ pounds} \div 8} = \frac{\$1.50}{1 \text{ pound}}$$

What is the price per 1 pound? We have an 8 in the denominator, so we divide both the numerator and denominator by 8.

The price of the granola is \$1.50 per pound.



*What is the cost of 3 pounds of granola?

*What is the cost of $5 \frac{1}{2}$ pounds of granola?

*Can you use this information to find the cost of any amount of granola?



YOU GOT THIS.

Staples is having a sale on their most popular mechanical pencils with comfort grips. The sale price is \$5.67 for a package of three pencils.

* How much does each pencil cost?

* What would the cost of 5 pencils be?

