

1.3 (continued) Rates and Unit Rates

Goals: *Set up rates and find unit rates

*Use unit rates to compare two different situations

Rates and Unit Rates:

Rate:

Unit Rate:

Finding a unit rate:

Ex: A car travels 110 miles in 2 hours

Important Factors

- How do you set up this rate? Why?

What if the sentence read:

“It takes a car 2 hours to travel 110 miles”

Would you change the way you set up the rate?

2 questions to help you decide how to set it up:

- How many _____ does it take to go 1 _____?

Or

- How many _____ can you go in 1 _____?

*Since a UNIT RATE has a denominator of 1, then the denominator is the quantity with the 1 attached.

Use the given information to find a unit rate (round to the nearest cent):

Ex: A 16-ounce box of cereal costs \$2.99

First decide if you want to know the cost for 1-ounce, or the number of ounces you can get for \$1.

Ex: 9 gallons of gas costs \$29.70

First decide if you want to know the cost for 1-gallon, or the number of gallons you can get for \$1.

Ex: \$50 for 4 days work

Ex: 3 feet of snow in 5 hours

Ex: \$22 for 5 dozen donuts

Ex: \$73.45 in 13 hours

Ex: 1,473 people entered the park in 3 hours

Ex: 11,025 tickets sold at 9 theaters

Ex: 100 meters in 12.2 seconds

Ex: 21.5 pounds in 12 weeks

Set up two unit rates and then decide which is the better buy. Show or explain your work.

Ex: You can buy 4 Granny Smith apples at Ben's Mart for \$0.95. SaveMost sells the same quality apples 6 for \$1.49.

Ex: A 17-ounce box of cereal for \$4.89 of a 21-ounce box for \$5.69

Ex: 6 cans of green beans for \$1 of 10 cans for \$1.95

Ex: 1 pound 4 ounces of meat for \$4.99 of 2 pounds 6 ounces for \$9.75

Ex: A 2-liter bottle of soda for \$1.39 or a 12-pack of 12-ounce cans for \$3.49 (Hint: 2 liters = 67.63 ounces)