## Unit 3 Lesson 7 Cumulative Practice Problems

1. A car travels 55 miles per hour for 2 hours. Complete the table.

|  |  |  |
| --- | --- | --- |
| * time (hours) | * distance (miles) | * miles per hour |
| * 1 | * 55 | * 55 |
|  |  |  |
|  |  |  |
|  | * 110 |  |

1. The table shows the amounts of onions and tomatoes in different-sized batches of a salsa recipe.

* Elena notices that if she takes the number in the tomatoes column and divides it by the corresponding number in the onions column, she always gets the same result.
* What is the meaning of the number that Elena has calculated?

|  |  |
| --- | --- |
| * onions (ounces) | * tomatoes (ounces) |
| * 2 | * 16 |
| * 4 | * 32 |
| * 6 | * 48 |

1. A restaurant is offering 2 specials: 10 burritos for $12, or 6 burritos for $7.50. Noah needs 60 burritos for his party. Should he buy 6 orders of the 10-burrito special or 10 orders of the 6-burrito special? Explain your reasoning.
2. Complete the table so that the cost per banana remains the same.

|  |  |  |
| --- | --- | --- |
| * number of bananas | * cost in dollars | * unit price (dollars per banana) |
| * 4 |  | * 0.50 |
| * 6 |  | * 0.50 |
| * 7 |  | * 0.50 |
| * 10 |  | * 0.50 |
|  | * 10.00 | * 0.50 |
|  | * 16.50 | * 0.50 |

1. Two planes travel at a constant speed. Plane A travels 2,800 miles in 5 hours. Plane B travels 3,885 miles in 7 hours. Which plane is faster? Explain your reasoning.

* (From Unit 3, Lesson 5.)

1. A car has 15 gallons of gas in its tank. The car travels 35 miles per gallon of gas. It uses of a gallon of gas to go 1 mile.
   * How far can the car travel with 15 gallons? Show your reasoning.
   * How much gas does the car use to go 100 miles? Show your reasoning.

* (From Unit 3, Lesson 6.)

1. A box of cereal weighs 600 grams. How much is this weight in pounds? Explain or show your reasoning. (Note: 1 kilogram = 2.2 pounds)

* (From Unit 3, Lesson 4.)



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