### Lesson 7 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
 |
| * $\frac{1}{2}$
 |  |  |
| * $1\frac{1}{2}$
 |  |  |
|  | * 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 ofbananas
 | * cost indollars
 | * 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 $\frac{1}{35}$ 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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