

Lesson 12 Practice Problems

1. A music store marks up the instruments it sells by 30%.
 - a. If the store bought a guitar for \$45, what will be its store price?

 - b. If the price tag on a trumpet says \$104, how much did the store pay for it?

 - c. If the store paid \$75 for a clarinet and sold it for \$100, did the store mark up the price by 30%?

2. A family eats at a restaurant. The bill is \$42. The family leaves a tip and spends \$49.77.
 - a. How much was the tip in dollars?

 - b. How much was the tip as a percentage of the bill?

3. The price of gold is often reported per ounce. At the end of 2005, this price was \$513. At the end of 2015, it was \$1060. By what percentage did the price per ounce of gold increase?

4. A phone keeps track of the number of steps taken and the distance traveled. Based on the information in the table, is there a proportional relationship between the two quantities? Explain your reasoning.

number of steps	distance in kilometers
950	1
2,852	3
4,845	5.1

(From Unit 2, Lesson 7.)

5. Noah picked 3 kg of cherries. Mai picked half as many cherries as Noah. How many total kg of cherries did Mai and Noah pick?

A. $3 + \frac{1}{2}$

B. $3 - \frac{1}{2}$

C. $(1 + \frac{1}{2}) \cdot 3$

D. $1 + \frac{1}{2} \cdot 3$

(From Unit 4, Lesson 4.)