### Lesson 12 Practice Problems

1. A music store marks up the instruments it sells by 30%.
   1. If the store bought a guitar for $45, what will be its store price?
   2. If the price tag on a trumpet says $104, how much did the store pay for it?
   3. 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.
   1. How much was the tip in dollars?
   2. 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.)

1. 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?

* (From Unit 4, Lesson 4.)



© CC BY Open Up Resources. Adaptations CC BY IM.