

## Math quiz

### Solving real-world problems: Rates and unit rates

1. A machine can pack 70 boxes of chocolate in 5 minutes.  
At this rate, how many boxes of chocolate can it pack in 8 minutes?

The machine can pack \_\_\_\_\_ boxes of chocolate in 8 minutes.

2. Lourdes walks dogs for 5 hours and earns \$60.
- a) At this rate, how much does she earn in an hour?  
She earns \$\_\_\_\_\_ in 1 hour.
- b) At this rate, how much will Lourdes earn if she works for 14 hours?  
Lourdes will earn \$\_\_\_\_\_ for 14 hours of work.
3. The table shows the postal charge for sending letters to Country Y.  
How much does sending a letter weighing 80 grams to Country Y cost?

Fist 20 grams	50cents
Per additional 10 grams	30 cents

It will cost \$\_\_\_\_\_

4. Water flows from the faucet at a rate of 5 liters every 25 seconds.
- a) At this rate, how much water will flow from the faucet in 45 seconds?  
\_\_\_\_\_ liters
- b) At this rate, how long would it take to collect 60 liters of water?  
\_\_\_\_\_ seconds
5. The distance between Santa Ana and a city in San Miguel is 216 kilometers. Mr. JJ rides his motorcycle at a speed of 54 kilometers per hour. How long does it take to travel from Santa Ana to San Miguel?

Mr. JJ takes \_\_\_\_\_ hours to travel from city to city.