

**Practice**

1. Sean buys 8 DVDs for \$120.  
Each DVD costs the same amount.
  - a) How much does 1 DVD cost?
  - b) How much do 13 DVDs cost?
  
2. Ioana works for 4 days and earns \$224. At this rate:
  - a) How much does she earn in 1 day?
  - b) How much does she earn in 11 days?
  
3. Mika worked 6 shifts and earned \$720.  
She earns the same amount for each shift.  
How much money would she earn in 4 shifts?
  
4. Zeljko purchased 4 cases of pop for \$26.
  - a) How many cases could he buy for \$91? Explain.
  - b) How could you have solved the problem a different way?
  
5. A car travels 96 km on 8 L of gasoline.
  - a) How far will the car travel on 25 L of gasoline?
  - b) How much gasoline is needed to travel 120 km?  
Show your work.
  
6. A machine can bind 1000 books in 8 min.
  - a) How many books can the machine bind in 1 h?
  - b) How long will it take to bind 7250 books? Explain.

We use proportional reasoning when we use a map to determine distances.

7. Madurodam is a miniature city in the Netherlands.  
Every object in the city is built to the same scale.  
A lamppost in Madurodam is 12 cm tall.  
It is modelled after an actual lamppost that is 3 m tall.
  - a) A bridge that crosses the canal in Madurodam is 30 cm long. How long is the actual bridge that was used as the model?
  - b) A clock tower is to be built in Madurodam.  
It is modelled after a clock tower that is 25 m tall.  
How tall should the miniature tower be?
  - c) Explain how you solved each problem.



