Moving On

Activity

Melissa's family needs to move their furniture to their new house.

Melissa rings up three furniture removal companies, tells them how much furniture they have to move, and gets the following quotes:
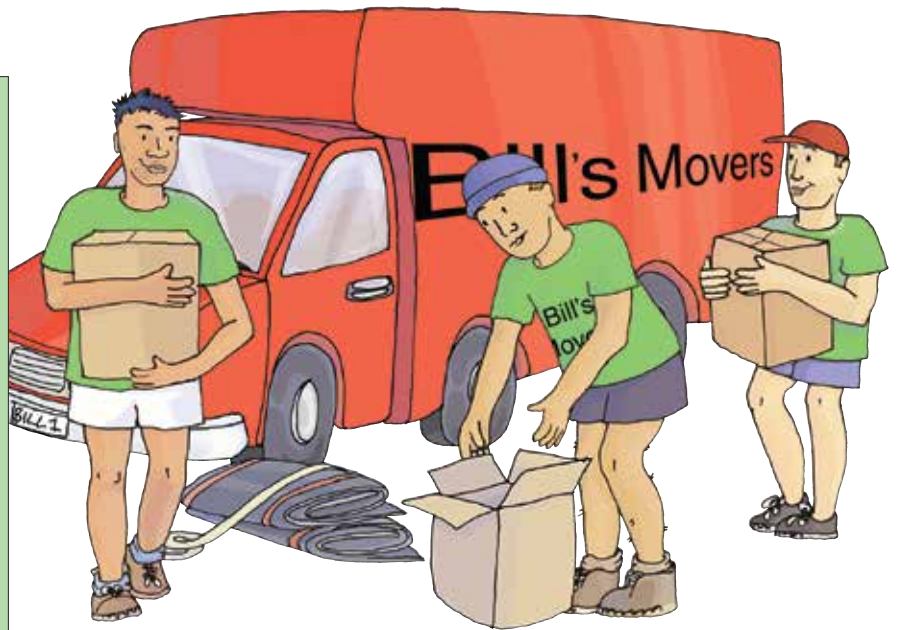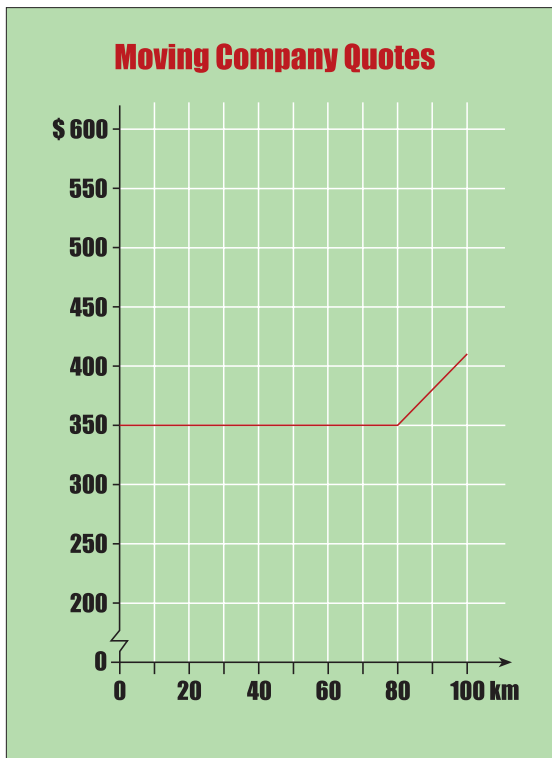
Move It

$350 flat charge for the first 80 kilometres, then $3 per kilometre after that

Bill's Movers

$200 plus $5 per kilometre

Tautoko Removals

$250 plus $2 per kilometre

1. Melissa starts a graph to compare the different prices. Copy and complete it.

Moving Company Quotes

2. Melissa's family is moving 25 kilometres.

   a. Use your graph to find the cheapest company.

   b. Can you find another way to work out the cheapest company for this distance?

3. If Melissa's family were moving 75 kilometres away, which would be the cheapest company?

4. Melissa makes up a rule to describe the charge for Bill's Movers:

   Cost (in dollars) = 200 + (5 x kilometres travelled).

   a. Write a formula like this for Tautoko Removals.

   b. Think of a way to show Move It's charges as a formula.

Interpreting and writing formulae