

258. The price of a cinema ticket for a child compared to an adult can be represented by the ratio 4 : 5. If an adult pays \$18.75 for a ticket what would a child pay?

260. A farmer has a 2 : 7 ratio of cows to sheep on his property. If he was to sell 42 sheep, how many cows would he have to sell to keep the same ratio?

262. It is the first day of Deeana's holidays and she has a number of things to do prior to leaving on her Australian holiday. Use ratios to solve Deeana's problems.

a) Deeana needs to "shock dose" the swimming pool with chlorine. The container says that for a 9000 L pool she should add 200 g. What dose should she add for their 60 000 L pool?

b) Her neighbour has to add 1.5 kg of chlorine to their pool. How big a pool must she have?

c) Deeana's friend Crystal has asked her to purchase some Australian clothes. The ratio of Australian money to New Zealand money is A \$0.825 : NZ \$1. How much Australian money will Crystal's NZ \$300 equate to?

d) A fashion outfit cost A \$185. How much is this in New Zealand dollars?

e) To get to Crystal's place Deeana uses her motorcycle. Her bike requires 50 mL of oil to be added for every 2 litres of petrol. How much oil should she add to 6.5 L of petrol?

259. A recipe has a ratio of water to milk of 3 : 2. If the recipe requires a total of 2.6 litres of liquid, how many litres of water is required?

261. A fertiliser comprises potash and super in the ratio 7 : 12. How much potash does 152 kg of fertiliser contain?

f) The map of Auckland is at a scale of 10 mm for every 1 km of real distance. Deeana estimates that it is 7.5 cm to Crystal's place on the map. How far must she travel on her motorcycle?

g) Australia won 16 gold Olympic medals in 2000. The population of New Zealand was 3.8 million and that of Australia was 19.5 million. How many gold medals should NZ have won?

