- 1 (a) Kristian and Stephanie share some money in the ratio 3:2. Kristian receives \$72.
  - (i) Work out how much Stephanie receives.

$$\frac{2}{3} \times $72 = $48$$

- \$ .....[2]
- (ii) Kristian spends 45% of his \$72 on a computer game.

Calculate the price of the computer game.

$$\frac{45}{100}$$
 x \$72 = \$32.40

\$ .....[1]

(iii) Kristian also buys a meal for \$8.40.

Calculate the fraction of the \$72 Kristian has left after buying the computer game and the meal. Give your answer in its lowest terms.

$$\frac{31.20}{72} = \frac{31.2 \times 10}{72 \times 10}$$

$$= \frac{312}{720} \div 24$$

$$= \frac{13}{30}$$

13 30 [2

(iv) Stephanie buys a book in a sale for \$19.20. This sale price is after a reduction of 20%.

Calculate the original price of the book.

$$\frac{100\%}{x} = \frac{80\%}{\$19.20}$$

$$100 \cdot 19.20 = 80 \cdot \times$$

$$1920 = 80 \times$$

$$\frac{1920}{80} = \times$$

$$24 = \times$$

\$ .....[3]