

Percentages (I)

Solution

$$9. \text{ Loss percentage} = \frac{4\,000\,000 - 2\,500\,000}{4\,000\,000} \times 100\% \\ = 37.5\%$$

10. Let \$x\$ be the marked price.

$$x(1 - 35\%) = 162.5 \\ x = 250$$

$$11. \text{ Discount} = 350 - 297.5 \\ = \$52.5$$

$$\text{Discount \%} = \frac{52.5}{350} \times 100\% \\ = 15\%$$

12. Let the marked price be \$x\$.

$$\therefore x(1 - 25\%) = 1\,500 \\ x = 2\,000$$

Let the cost price of the lamp be \$y\$.

$$y(1 + 25\%) = 2\,000 \\ y = \$1\,600$$

$$13. \text{ Amount that May paid for the wallet} = 3\,000 \times (1 + 6\%) \\ = \$3\,180$$

Amount that Susan had to pay for the wallet

$$= 3\,180 \times (1 + 5\%) \\ = \$3\,339$$

14. Let \$x\$ be the cost.

$$x(1 + 25\%) = 5\,569 \\ x = 4\,455.2$$

$$15. \text{ Selling price} = 280 \times (1 + 75\%) \\ = \$490$$

$$16. \text{ Total cost} = 250 \times 25 \\ = 6\,250$$

\therefore The total selling price is $6250 \times (1 + 20\%) = 7500$

Total selling price for 150 CDs sold in packet of 5

$$= 180 \times \frac{150}{5} \\ = 5\,400$$

\therefore The price he should sell each of the remaining CDs

$$= \frac{7\,500 - 5\,400}{250 - 150} \\ = \$21$$