

Question 1

What is 82.57% as a decimal?

- A 8.257
- B 82.57
- C 0.8257**
- D 825.7
- E 8257.0

$$82.57\% = 82.57 \div 100 = 0.8257$$

Question 2

Tsula saves 33% of her pocket money each week. What fraction does she save?

- A $\frac{3.3}{100}$
- B $\frac{3}{100}$
- C $\frac{330}{100}$
- D $\frac{33}{10}$
- E $\frac{33}{100}$**

$$33\% = \frac{33}{100}$$

Question 3

What is 40% of 60 kg?

- A 12kg
- B 15kg
- C 24kg**
- D 30kg
- E 32kg

$$40\% \text{ of } 60 \text{ kg} = 0.4 \times 60 = 24 \text{ kg}$$

Question 4

Simon pays \$175 for shoes that were originally marked at \$250. What was the percentage discount on his shoes?

- A 70%
- B 30%**
- C 35%
- D 44%
- E 32%

$$\begin{aligned} \text{Discount} &= 250 - 175 = 75 \\ \text{Percentage discount} &= \frac{75}{250} \times 100\% = 30\% \end{aligned}$$

Question 5

A population of a colony of penguins increased from 4000 to 5000 in a year.

What percentage increase was this?

- A 1000%
- B 25%**
- C 20%
- D 10%
- E 5%

$$\begin{aligned} \text{Increase} &= 5000 - 4000 = 1000 \\ \text{Percentage Increase} &= \frac{1000}{4000} \times 100\% = 0.25 \times 100\% = 25\% \end{aligned}$$

Question 6

In Australia, there is a GST of 10%. If an item originally costs \$357 before GST is added, how much GST will be added on to the price?

- A \$37
- B \$35.70**
- C \$3.57
- D \$3.77
- E \$0.375

$$\begin{aligned} 10\% \text{ of } \$357 &= 0.1 \times 357 = 35.7 \\ &= \$35.70 \end{aligned}$$