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3 Joshua buys a car for \$12 500

He sells the car to Nina.

Nina pays

- a deposit of \$1500
- followed by 36 monthly payments of \$450

Work out Joshua's percentage profit.

$$\begin{aligned} \text{Pays} \quad & 1500 + 36 \times 450 \\ & 1500 + 16200 = 17700 \end{aligned}$$

$$\begin{aligned} \text{Profit} &= 17700 - 12500 \\ &= 5200 \end{aligned}$$

$$\begin{aligned} \frac{\text{Change}}{\text{original}} \times 100 &\rightarrow \frac{5200}{12500} \times 100 \\ &= 41.6\% \end{aligned}$$

.....%

(Total for Question 3 is 4 marks)



P 7 3 4 6 5 A 0 5 2 8

- 3 Nanette buys 60 notebooks for a total cost of 780 dirhams.

Nanette sells 70% of the notebooks for 22 dirhams each.
She sells the remaining notebooks for 19 dirhams each.

Work out Nanette's percentage profit.

Give your answer correct to 3 significant figures.

$$70\% \times 60 = 42 \text{ notebooks}$$

$$42 \times 22 = 924 \text{ dirhams}$$

$$60 - 42 = 18 \text{ notebooks left}$$

$$18 \times 19 = 342 \text{ dirhams}$$

$$\text{Total} = 924 + 342$$

$$= 1266 \text{ dirhams}$$

$$\text{Profit} = 1266 - 780$$

$$= 486$$

$$\frac{\text{Change}}{\text{original}} \times 100 \rightarrow \frac{486}{780} \times 100$$

$$= 62.3076 \dots$$

3sf

$$62.3\%$$

(Total for Question 3 is 4 marks)



P 7 2 7 9 0 A 0 5 2 8

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- 3 Gladys buys a table for \$465 to sell in her shop.

She sells the table for \$520

- (a) Work out the percentage profit that Gladys makes from the sale of the table.
Give your answer correct to 3 significant figures.

$$520 - 465 = \$55 \text{ profit}$$

$$\frac{\text{Change}}{\text{original}} \times 100 \rightarrow \frac{55}{465} \times 100$$

$$= 11.827 \dots$$

3sf

..... 11.8 %
(3)



P 6 6 3 0 1 A 0 5 2 8

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$$= 62.3076 \dots$$

3sf

$$62.3\%$$

(Total for Question 3 is 4 marks)



P 7 2 7 9 0 A 0 5 2 8

- 5 Josh buys and sells books for a living.

He buys 120 books for £4 each.

He sells $\frac{1}{2}$ of the books for £5 each.

He sells 40% of the books for £7 each.

He sells the rest of the books for £8 each.

- (a) Calculate Josh's percentage profit.

$$\frac{1}{2} \times 120 = 60 \text{ books}$$

$$40\% \times 120 = 48 \text{ books}$$

$$120 - 60 - 48 = 12 \text{ books left}$$

$$60 \times £5 = 300$$

$$48 \times £7 = 336$$

$$12 \times £8 = \underline{96}$$

$$\text{Sold} \rightarrow £732$$

$$120 \times £4 = £480$$

↑
cost

$$\text{Profit } 732 - 480 = 252$$

$$\frac{252}{480} \times 100 = 52.5\%$$

$$\frac{\text{Change}}{\text{original}} \times 100 \rightarrow \frac{252}{480} \times 100 = 52.5\%$$



November 2021 P2H

- 6 Victor buys 12 bottles of apple juice for a total cost of \$21
Victor sells all 12 bottles at \$2.45 each bottle.

Work out Victor's percentage profit.

$$12 \times \$2.45 = \$29.40$$

$$29.40 - 21 = \$8.40 \text{ profit}$$

$$\frac{\text{Change}}{\text{original}} \times 100 \rightarrow \frac{8.40}{21} \times 100$$
$$= 40\%$$

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(Total for Question 6 is 3 marks)

