

M3 = 31 days to go!

10 (a) Pat buys 30 boxes of crisps.

Each box contains 48 packets of crisps.

$$30 \times 48 = 1440 \text{ packets}$$

He sells 80% of the crisps at 60p a packet.

(i) How many packets does he sell at this price?

$$\begin{aligned} &80\% \text{ of } 1440 \\ &0.80 \times 1440 \\ &1152 \end{aligned}$$

Answer 1152 packets [2]

(ii) How much in total does he sell them for?

$$\begin{aligned} &1152 \times 60p \\ &69120 \text{ pence} \\ &\pounds 691.20 \end{aligned}$$

Answer \pounds 691.20 [1]
↑ 100k \pounds

(b) He sells the rest at 20p a packet.
Pat paid $\pounds 25$ for each box of crisps.

Does Pat make a profit or loss, and how much is this profit or loss?

$\pounds 691.20$
for 1152
packets.

288 packets sell at 20p.

$$\begin{aligned} &288 \times 20 \\ &5760 \text{ pence} \\ &\pounds 57.60 \end{aligned}$$

costs
 25×30
750

Total sales
 $691.20 + 57.60$
 $\pounds 748.80$

Answer Pat makes a loss of \pounds 1.20 [3]

