



Proportions and Percentages

● Question 1

Answer: B, 320g

1 Favourites Pack = 500g

2 Favourites Packs = $500\text{g} \times 2 = 1000\text{g}$ or 1kg

Lollipop weight = $1000\text{g} \times 0.32 = 320\text{g}$

● Question 2

Answer: E, 267

1 Chocolate Lovers Pack = 500g

2 Chocolate Lovers Packs = $500\text{g} \times 2 = 1000\text{g}$ or 1kg

M&M weight = $1000\text{g} \times 0.4 = 400\text{g}$

Number of M&M's = $400\text{g}/1.5 = 266.6667$ which is closest to 267



Proportions and Percentages

● Question 3

Answer: A, 159

Percentage of Maltesers in Candy Crush =
Percentage of Confection Connection x Percentage of
Maltesers in Confection Connection + Percentage of
Favourites x Percentage of Maltesers in Favourites
 $= 0.4 \times 0.5 + 0.6 \times 0.33$
 $= 0.398$

1 Candy Crush Pack = 500g

2 Candy Crush Packs = $500\text{g} \times 2 = 1000\text{g}$ or 1kg

Malteser Weight = $1000\text{g} \times 0.398 = 398\text{g}$

Number of Maltesers = $398\text{g} / 2.5 = 159.2$ which is
closest to 159

● Question 4

Answer: A, 26%

Percentage of M&Ms = $(35\% + 40\% + 10\% + 20\%) / 4 = 26.25\%$ which is closest to 26%