
GCSE Mathematics

Best Buy Problems

Mark Scheme - Foundation Tier | Grades 3-5

M = method mark, A = accuracy mark (dependent on the preceding M mark), B = independent mark.

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Edexcel-style questions

Q1 Grade 3 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	price per yoghurt = $\text{£}2.40 \div 6$	M1
(a)	£0.40	A1

Q2 Grade 4 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	500 g: $\text{£}1.50 \div 500 \times 100 = \text{£}0.30$ per 100 g	M1
(a)	800 g: $\text{£}2.24 \div 800 \times 100 = \text{£}0.28$ per 100 g	M1
(a)	the 800 g bag is better value	A1

Q3 Grade 4 Edexcel style

Total: 4

Part	Mark scheme	Marks
(a)	250 ml: $\text{£}2.00 \div 250 \times 100 = \text{£}0.80$ per 100 ml	M1
(a)	400 ml: $\text{£}3.00 \div 400 \times 100 = \text{£}0.75$ per 100 ml	M1
(a)	600 ml: $\text{£}4.20 \div 600 \times 100 = \text{£}0.70$ per 100 ml	M1
(a)	the 600 ml bottle is best value	A1

Q4 Grade 5 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	price per can in multipack = $\text{£}3.30 \div 6 = \text{£}0.55$	M1
(a)	difference = $\text{£}0.65 - \text{£}0.55$	M1
(a)	the multipack is £0.10 cheaper per can	A1

Q5 Grade 5 Edexcel style

Total: 4

Part	Mark scheme	Marks
(a)	packs of 5: $40 \div 5 = 8$ packs, cost = $8 \times \text{£}3.75 = \text{£}30$	M1
(a)	packs of 8: $40 \div 8 = 5$ packs, cost = $5 \times \text{£}5.60 = \text{£}28$	M1
(a)	£28 is less than £30	M1
(a)	packs of 8 are cheaper, total cost £28	A1

AQA-style questions

Q6 Grade 3 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	price per pen = $\pounds 2.75 \div 5$	M1
(a)	$\pounds 0.55$	A1

Q7 Grade 4 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	1 litre: $\pounds 1.20 \div 1 = \pounds 1.20$ per litre	M1
(a)	1.5 litres: $\pounds 1.65 \div 1.5 = \pounds 1.10$ per litre	M1
(a)	the 1.5 litre bottle is better value	A1

Q8 Grade 4 AQA style

Total: 4

Part	Mark scheme	Marks
(a)	500 g: $\pounds 0.75 \div 0.5 = \pounds 1.50$ per kg	M1
(a)	1 kg: $\pounds 1.40$ per kg	M1
(a)	1.5 kg: $\pounds 1.95 \div 1.5 = \pounds 1.30$ per kg	M1
(a)	the 1.5 kg bag is best value	A1

Q9 Grade 5 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	4 single bars = $4 \times \pounds 1.20 = \pounds 4.80$	M1
(a)	pack of 4 = $\pounds 4.00$	M1
(a)	yes, the pack is $\pounds 0.80$ cheaper than buying 4 single bars	A1

Q10 Grade 5 AQA style

Total: 4

Part	Mark scheme	Marks
(a)	bags of 6: $30 \div 6 = 5$ bags, cost = $5 \times \pounds 4.50 = \pounds 22.50$	M1
(a)	bags of 10: $30 \div 10 = 3$ bags, cost = $3 \times \pounds 7.00 = \pounds 21$	M1
(a)	$\pounds 21$ is less than $\pounds 22.50$	M1
(a)	bags of 10 are cheaper, total cost $\pounds 21$	A1

OCR-style questions

Q11 Grade 3 OCR style

Total: 2

Part	Mark scheme	Marks
(a)	price per egg = $\text{£}3.00 \div 12$	M1
(a)	$\text{£}0.25$	A1

Q12 Grade 4 OCR style

Total: 3

Part	Mark scheme	Marks
(a)	2 kg: $\text{£}4.80 \div 2 = \text{£}2.40$ per kg	M1
(a)	3.5 kg: $\text{£}8.05 \div 3.5 = \text{£}2.30$ per kg	M1
(a)	the 3.5 kg box is better value	A1

Q13 Grade 4 OCR style

Total: 4

Part	Mark scheme	Marks
(a)	300 g: $\text{£}1.80 \div 300 \times 100 = \text{£}0.60$ per 100 g	M1
(a)	500 g: $\text{£}2.75 \div 500 \times 100 = \text{£}0.55$ per 100 g	M1
(a)	750 g: $\text{£}3.75 \div 750 \times 100 = \text{£}0.50$ per 100 g	M1
(a)	the 750 g box is best value	A1

Q14 Grade 5 OCR style

Total: 3

Part	Mark scheme	Marks
(a)	price per apple in the bag = $\text{£}2.00 \div 8 = \text{£}0.25$	M1
(a)	difference = $\text{£}0.30 - \text{£}0.25$	M1
(a)	the bag is better value, $\text{£}0.05$ cheaper per apple	A1

Q15 Grade 5 OCR style

Total: 4

Part	Mark scheme	Marks
(a)	packs of 4: $60 \div 4 = 15$ packs, cost = $15 \times \text{£}1.20 = \text{£}18$	M1
(a)	packs of 15: $60 \div 15 = 4$ packs, cost = $4 \times \text{£}4.05 = \text{£}16.20$	M1
(a)	$\text{£}16.20$ is less than $\text{£}18$	M1
(a)	packs of 15 are cheaper, total cost $\text{£}16.20$	A1

Teachably-style questions

Q16 Grade 3 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	price per battery = $\pounds 4.50 \div 10$	M1
(a)	$\pounds 0.45$	A1

Q17 Grade 4 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	200 g: $\pounds 3.40 \div 200 \times 100 = \pounds 1.70$ per 100 g	M1
(a)	350 g: $\pounds 5.60 \div 350 \times 100 = \pounds 1.60$ per 100 g	M1
(a)	the 350 g bag is better value	A1

Q18 Grade 4 Teachably style

Total: 4

Part	Mark scheme	Marks
(a)	1 litre: $\pounds 2.50$ per litre	M1
(a)	2 litres: $\pounds 4.60 \div 2 = \pounds 2.30$ per litre	M1
(a)	3 litres: $\pounds 6.60 \div 3 = \pounds 2.20$ per litre	M1
(a)	the 3 litre bottle is best value	A1

Q19 Grade 5 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	price per roll in the pack = $\pounds 6.30 \div 9 = \pounds 0.70$	M1
(a)	saving = $\pounds 0.75 - \pounds 0.70$	M1
(a)	$\pounds 0.05$ saved per roll	A1

Q20 Grade 5 Teachably style

Total: 4

Part	Mark scheme	Marks
(a)	bags of 6: $54 \div 6 = 9$ bags, cost = $9 \times \pounds 2.10 = \pounds 18.90$	M1
(a)	bags of 9: $54 \div 9 = 6$ bags, cost = $6 \times \pounds 2.97 = \pounds 17.82$	M1
(a)	$\pounds 17.82$ is less than $\pounds 18.90$	M1
(a)	bags of 9 are cheaper, total cost $\pounds 17.82$	A1

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