
GCSE Mathematics

Sharing in a Given Ratio

Mark Scheme - Foundation Tier | Grades 4-5

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

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Edexcel-style questions

Q1 Grade 4 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	total parts = $2 + 3 = 5$	M1
(a)	$£60 \div 5 = £12$ per part	M1
(a)	$£24 : £36$	A1

Q2 Grade 4 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	total parts = $1 + 2 + 3 = 6$	M1
(a)	$£120 \div 6 = £20$ per part	M1
(a)	$£20 : £40 : £60$	A1

Q3 Grade 5 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	1 part = $18 \div 3 = 6$	M1
(a)	Ben's share = 5×6	M1
(a)	Ben receives 30 sweets	A1

Q4 Grade 5 Edexcel style

Total: 4

Part	Mark scheme	Marks
(a)	total parts = $3 + 4 = 7$	M1
(a)	$£280 \div 7 = £40$ per part	M1
(a)	shares = $£120$ and $£160$	M1
(a)	difference = $£40$	A1

Q5 Grade 5 Edexcel style

Total: 4

Part	Mark scheme	Marks
(a)	total parts = $2 + 3 + 5 = 10$	M1
(a)	1 part = $600 \div 10 = 60$ ml	M1
(a)	juice = $(2 + 3) \times 60$	M1
(a)	juice = 300 ml	A1

AQA-style questions

Q6 Grade 4 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	total parts = $3 + 4 = 7$	M1
(a)	$£84 \div 7 = £12$ per part	M1
(a)	$£36 : £48$	A1

Q7 Grade 4 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	total parts = $2 + 3 + 4 = 9$	M1
(a)	$£180 \div 9 = £20$ per part	M1
(a)	$£40 : £60 : £80$	A1

Q8 Grade 5 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	1 part = $16 \div 2 = 8$	M1
(a)	total parts = $2 + 7 = 9$, so total = 9×8	M1
(a)	total = $£72$	A1

Q9 Grade 5 AQA style

Total: 4

Part	Mark scheme	Marks
(a)	total parts = $4 + 5 = 9$	M1
(a)	$£450 \div 9 = £50$ per part	M1
(a)	shares = $£200$ and $£250$	M1
(a)	difference = $£50$	A1

Q10 Grade 5 AQA style

Total: 4

Part	Mark scheme	Marks
(a)	1 part = $150 \div 2 = 75$ g	M1
(a)	total parts = $5 + 3 + 2 = 10$	M1
(a)	total mass = 10×75	M1
(a)	total mass = 750 g	A1

OCR-style questions

Q11 Grade 4 OCR style

Total: 3

Part	Mark scheme	Marks
(a)	total parts = $5 + 7 = 12$	M1
(a)	$£96 \div 12 = £8$ per part	M1
(a)	$£40 : £56$	A1

Q12 Grade 4 OCR style

Total: 3

Part	Mark scheme	Marks
(a)	total parts = $2 + 3 + 5 = 10$	M1
(a)	$£140 \div 10 = £14$ per part	M1
(a)	$£28 : £42 : £70$	A1

Q13 Grade 5 OCR style

Total: 3

Part	Mark scheme	Marks
(a)	1 part = $45 \div 5 = 9$	M1
(a)	A's share = 4×9	M1
(a)	A receives £36	A1

Q14 Grade 5 OCR style

Total: 4

Part	Mark scheme	Marks
(a)	total parts = $5 + 7 = 12$	M1
(a)	$£360 \div 12 = £30$ per part	M1
(a)	shares = £150 and £210	M1
(a)	difference = £60	A1

Q15 Grade 5 OCR style

Total: 4

Part	Mark scheme	Marks
(a)	total parts = $2 + 3 + 4 = 9$	M1
(a)	angles sum to 180° , so 1 part = $180 \div 9 = 20^\circ$	M1
(a)	largest angle = $4 \times 20^\circ$	M1
(a)	largest angle = 80°	A1

Teachably-style questions

Q16 Grade 4 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	total parts = $4 + 7 = 11$	M1
(a)	$£110 \div 11 = £10$ per part	M1
(a)	$£40 : £70$	A1

Q17 Grade 4 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	total parts = $3 + 4 + 5 = 12$	M1
(a)	$£240 \div 12 = £20$ per part	M1
(a)	$£60 : £80 : £100$	A1

Q18 Grade 5 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	1 part = $24 \div 8 = 3$	M1
(a)	blue paint = 3×3	M1
(a)	9 litres of blue paint	A1

Q19 Grade 5 Teachably style

Total: 4

Part	Mark scheme	Marks
(a)	total parts = $3 + 5 = 8$	M1
(a)	$£560 \div 8 = £70$ per part	M1
(a)	shares = £210 and £350	M1
(a)	difference = £140	A1

Q20 Grade 5 Teachably style

Total: 4

Part	Mark scheme	Marks
(a)	1 part = $900 \div 3 = £300$	M1
(a)	total parts = $3 + 4 + 5 = 12$	M1
(a)	total donation = 12×300	M1
(a)	total donation = £3600	A1

END OF PAPER

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