
GCSE Mathematics

Conversion Graphs

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: 1**

Part	Mark scheme	Marks
(a)	48 km	B1

Q2 Grade 4 Edexcel style**Total: 1**

Part	Mark scheme	Marks
(a)	40 miles	B1

Q3 Grade 4 Edexcel style**Total: 2**

Part	Mark scheme	Marks
(a)	gradient = $80 \div 50$	M1
(a)	1 mile = 1.6 km	A1

Q4 Grade 5 Edexcel style**Total: 3**

Part	Mark scheme	Marks
(a)	20 miles = 32 km	M1
(a)	15 miles = 24 km	M1
(a)	total = $32 + 24 = 56$ km	A1

Q5 Grade 5 Edexcel style**Total: 3**

Part	Mark scheme	Marks
(a)	25 miles = 40 km	M1
(a)	compare 40 km and 45 km	M1
(a)	the runner in France ran further, by 5 km	A1

AQA-style questions

Q6 Grade 3 AQA style

Total: 1

Part	Mark scheme	Marks
(a)	\$30	B1

Q7 Grade 4 AQA style

Total: 1

Part	Mark scheme	Marks
(a)	£30	B1

Q8 Grade 4 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	gradient = $50 \div 40$	M1
(a)	£1 = \$1.25	A1

Q9 Grade 5 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	£16 = \$20	M1
(a)	\$20 - \$10 = \$10 remaining	M1
(a)	\$10 = £8	A1

Q10 Grade 5 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	£32 = \$40	M1
(a)	compare \$40 and \$45	M1
(a)	the UK jacket is cheaper, by \$5	A1

OCR-style questions**Q11** Grade 3 OCR style**Total: 1**

Part	Mark scheme	Marks
(a)	36 litres	B1

Q12 Grade 4 OCR style**Total: 1**

Part	Mark scheme	Marks
(a)	12 gallons	B1

Q13 Grade 4 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	gradient = $60 \div 15$	M1
(a)	1 gallon = 4 litres	A1

Q14 Grade 5 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	8 gallons = 32 litres	M1
(a)	add the 24 litres already in litres	M1
(a)	total = $32 + 24 = 56$ litres	A1

Q15 Grade 5 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	12 gallons = 48 litres	M1
(a)	compare 48 litres and 44 litres	M1
(a)	the 12-gallon tank holds more fuel, by 4 litres	A1

Teachably-style questions

Q16 Grade 3 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	122°F	B1

Q17 Grade 4 Teachably style

Total: 1

Part	Mark scheme	Marks
(a)	30°C	B1

Q18 Grade 4 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	gradient = $(212 - 32) \div 100$	M1
(a)	1.8°F per °C	A1

Q19 Grade 5 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	10°C = 50°F	M1
(a)	70°C = 158°F	M1
(a)	increase = $158 - 50 = 108^\circ\text{F}$	A1

Q20 Grade 5 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	30°C = 86°F	M1
(a)	compare 86°F and 90°F	M1
(a)	New York is warmer, by 4°F	A1

END OF PAPER

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