
GCSE Mathematics

Upper & Lower Bounds Practice

Mark Scheme - Higher, Grade 6-7

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

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Edexcel-style questions

Q1 Grade 6 Edexcel style**Total: 2**

Part	Mark scheme	Marks
(a)	half of 1 cm = 0.5 cm	M1
(a)	Lower bound 7.5 cm, upper bound 8.5 cm	A1

Q2 Grade 6 Edexcel style**Total: 2**

Part	Mark scheme	Marks
(a)	half of 1 = 0.5	M1
(a)	$26.5 \leq n < 27.5$	A1

Q3 Grade 7 Edexcel style**Total: 2**

Part	Mark scheme	Marks
(a)	$12.5 + 8.5$	M1
(a)	21 cm	A1

Q4 Grade 7 Edexcel style**Total: 2**

Part	Mark scheme	Marks
(a)	8.5×5.5	M1
(a)	46.75 cm^2	A1

Q5 Grade 7 Edexcel style**Total: 2**

Part	Mark scheme	Marks
(a)	6×45.5	M1
(a)	273 cm	A1

AQA-style questions**Q6** Grade 6 AQA style**Total: 2**

Part	Mark scheme	Marks
(a)	half of 10 g = 5 g	M1
(a)	Lower bound 345 g, upper bound 355 g	A1

Q7 Grade 6 AQA style**Total: 2**

Part	Mark scheme	Marks
(a)	half of 0.1 = 0.05	M1
(a)	$4.15 \leq x < 4.25$	A1

Q8 Grade 7 AQA style**Total: 2**

Part	Mark scheme	Marks
(a)	245 - 45	M1
(a)	200 cm	A1

Q9 Grade 7 AQA style**Total: 2**

Part	Mark scheme	Marks
(a)	$155 \div 2.5$	M1
(a)	62 mph	A1

Q10 Grade 7 AQA style**Total: 2**

Part	Mark scheme	Marks
(a)	upper bound = 24.5 kg	M1
(a)	No, since 24.5 kg is still less than 24.6 kg	A1

OCR-style questions**Q11** Grade 6 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	half of 0.1 km = 0.05 km	M1
(a)	Lower bound 6.35 km, upper bound 6.45 km	A1

Q12 Grade 6 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	half of 10 = 5	M1
(a)	$495 \leq m < 505$	A1

Q13 Grade 7 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	14.5 - 9.5	M1
(a)	5 kg	A1

Q14 Grade 7 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	$49.5 \div 7.5$	M1
(a)	6.6 cm	A1

Q15 Grade 7 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	lower bound = $11.5 \times 6.5 = 74.75 \text{ m}^2$	M1
(a)	Yes, since 74.75 m^2 is at least 74 m^2	A1

Teachably-style questions

Q16 Grade 6 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	half of 5 s = 2.5 s	M1
(a)	Lower bound 42.5 s, upper bound 47.5 s	A1

Q17 Grade 6 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	half of 0.1 = 0.05	M1
(a)	$12.55 \leq t < 12.65$	A1

Q18 Grade 7 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$20.5 + 13.5$	M1
(a)	34 m	A1

Q19 Grade 7 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$85 \div 4.5$	M1
(a)	18.9 km/h	A1

Q20 Grade 7 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	$19.5 \div 8$	M1
(a)	2.44 cm	A1

END OF PAPER

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