
GCSE Mathematics

Compound Measures

Mark Scheme - Grades 5-7

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

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Edexcel-style questions

Q1 Grade 5 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	speed = $150 \div 3$	M1
(a)	50 km/h	A1

Q2 Grade 5 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	density = $540 \div 60$	M1
(a)	9 g/cm ³	A1

Q3 Grade 6 Edexcel style

Total: 3

Part	Mark scheme	Marks
(a)	in 1 hour, distance = $25 \times 3600 = 90000$ m	M1
(a)	90000 m = 90 km	M1
(a)	90 km/h	A1

Q4 Grade 6 Edexcel style

Total: 2

Part	Mark scheme	Marks
(a)	pressure = $200 \div 4$	M1
(a)	50 Pa	A1

Q5 Grade 7 Edexcel style

Total: 4

Part	Mark scheme	Marks
(a)	time 1 = $20 \div 16 = 1.25$ hours	M1
(a)	time 2 = $15 \div 10 = 1.5$ hours	M1
(a)	total = $1.25 + 1.5$	M1
(a)	total time = 2.75 hours	A1

AQA-style questions

Q6 Grade 5 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	distance = 12×2.5	M1
(a)	30 miles	A1

Q7 Grade 5 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	mass = 1.2×50	M1
(a)	60 g	A1

Q8 Grade 6 AQA style

Total: 3

Part	Mark scheme	Marks
(a)	$54 \text{ km/h} = 54000 \text{ m/h}$	M1
(a)	$54000 \div 3600 = 15$	M1
(a)	15 m/s	A1

Q9 Grade 6 AQA style

Total: 2

Part	Mark scheme	Marks
(a)	force = 15×6	M1
(a)	90 N	A1

Q10 Grade 7 AQA style

Total: 4

Part	Mark scheme	Marks
(a)	distance 1 = $3 \times 60 = 180 \text{ km}$	M1
(a)	distance 2 = $2 \times 45 = 90 \text{ km}$	M1
(a)	average speed = $(180 + 90) \div (3 + 2)$	M1
(a)	average speed = 54 km/h	A1

OCR-style questions

Q11 Grade 5 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	time = $240 \div 80$	M1
(a)	3 hours	A1

Q12 Grade 5 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	volume = $336 \div 8$	M1
(a)	42 cm ³	A1

Q13 Grade 6 OCR style**Total: 3**

Part	Mark scheme	Marks
(a)	in 1 hour, distance = $40 \times 3600 = 144000$ m	M1
(a)	144000 m = 144 km	M1
(a)	144 km/h	A1

Q14 Grade 6 OCR style**Total: 2**

Part	Mark scheme	Marks
(a)	area = $360 \div 40$	M1
(a)	9 m ²	A1

Q15 Grade 7 OCR style**Total: 4**

Part	Mark scheme	Marks
(a)	density = $450 \div 50$	M1
(a)	density = 9 g/cm ³	M1
(a)	mass = 9×80	M1
(a)	mass = 720 g	A1

Teachably-style questions

Q16 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	speed = $10 \div 2$	M1
(a)	5 km/h	A1

Q17 Grade 5 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	mass = 2.7×40	M1
(a)	108 g	A1

Q18 Grade 6 Teachably style

Total: 3

Part	Mark scheme	Marks
(a)	$108 \text{ km/h} = 108000 \text{ m/h}$	M1
(a)	$108000 \div 3600 = 30$	M1
(a)	30 m/s	A1

Q19 Grade 6 Teachably style

Total: 2

Part	Mark scheme	Marks
(a)	pressure = $84 \div 2.5$	M1
(a)	33.6 Pa	A1

Q20 Grade 7 Teachably style

Total: 4

Part	Mark scheme	Marks
(a)	time 1 = $24 \div 20 = 1.2$ hours	M1
(a)	time 2 = $24 \div 15 = 1.6$ hours	M1
(a)	total = $1.2 + 1.6$	M1
(a)	total time = 2.8 hours	A1

END OF PAPER

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