REVISE
.wales

1.12 — Direct & inverse proportion

Mark schemes for the 1.12 question pack

Spec 1.10.3 — Unit 1

SOLUTIONS · 2025 SPECIFICATION

Mark schemes for the 2 questions in the corresponding revise.wales question pack (7 marks total). Sources: legacy WJEC GCSE papers, WJEC SAM, and custom-authored mark schemes. Pack layout © revise.wales.

8(a) N Time Area OR N Time Area n 8 80n OR n 60/n 600 600/80 OR 60/8 = 7·5 or equivalent = 8 (painters)	M1 M1 A1 A1	 May be implied. This M1 implies the previous M1 CAO. May not be seen. FT provided at least M1 awarded and rounding required A correct answer of 8 (with no errors) from M1 awarded gains all 4 marks *Alternative methods:* *M1 for n painters take 1 hour to paint 10n (m^2)* *M1 for 600/8* *A1 for 75 (m^2 / hour)* *A1 for 8 (painters)* *A correct answer of 8 (with no errors) from M1 awarded gains all 4 marks* *OR* *M2 for* $5 \times \frac{10}{8} \times \frac{600}{500}$ *This is for the correct use of the 5 with all 4 numbers, 10, 8, 600 and 500* *M1 for correct use of the 5 with any 2 of the numbers* *A1 for 7·5 or equivalent. CAO. May not be seen* *A1 for 8 (painters)* *FT provided at least M1 awarded and rounding required* *A correct answer of 8 (with no errors) from M1 awarded gains all 4 marks*
8(b) Valid assumption e.g. 'All painters work at the same rate (or speed)', 'They all paint 10(m^2) in an hour' 'Each painter is equally efficient'	B1	Do not accept e.g. 'The rooms (or walls) are the same shape', 'They had the same breaks' 'They don't have breaks' 'Each painter works at a constant speed'

10. 1×9^{100} 1×10^{50} 1×9^{99} 9×10^{90} 9×10^{99}	B1	

End of solutions