

Page 7	Mark Scheme IGCSE – May/June 2013	Syllabus 0625	Paper 32
7	(a) ($P_1 =$) $260 \times 2 \times \text{length} \times \text{breadth}$ ($= 260 \times 0.1$), words, symbols or numbers note: gets this mark if omits factor of 2 ($P_1 = 2 \times 260 \times 0.25 \times 0.2 =$) 26 W (b) ($P_o = 0.95 \times 20 =$) 19 (W) efficiency = output (energy) / input (energy) accept power for energy $E =$ candidate's P_o/candidate's P_1 evaluated ($= 0.73$ or 73%), accept fraction (19/26) 0.73% or bald 73 gets unit penalty (c) A OR B in series with C connected across 20 V parallel combination of A and B only (d) $1/R = 1/R_1 + 1/R_2$ OR $R = R_1 R_2 / (R_1 + R_2)$ in any form OR $R_1 R_2 / (R_1 + R_2)$ words, symbols or numbers 12 Ω	C1 A1 [2] B1 C1 A1 [3] M1 A1 [2] C1 A1 [2]	[Total: 9]
8	(a) at least 3 complete circles/ellipses, roughly centred on X spacing greater as radius increases at least 1 arrow to show clockwise field, no contradiction (b) use of compass/suspended small magnet observe needle/magnet on one field line observe needle/magnet on another field line mark on card OR needle/magnet shows direction of field OR (sprinkle) iron filings o.w.t.t.e. tap card direction/alignment of iron filings show field use compass/suspended small magnet to show field direction (c) wire X/Y is in a magnetic field / any reference to magnetic fields accept description involving poles that clearly implies fields current carrying conductor in field / fields interact/cut/combine/overlap (d) top box only ticked	M1 A1 B1 [3] B1 B1 B1 B1 [4] M1 A1 B1 B1 B1 B1 [2] B1 [1]	[Total: 10]

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