

Question	Answer	Mark	Mark scheme	Additional guidance
17	100	M1 M1 M1 C1	for angle $BAC = 40$ for angle OAC or angle $OCA = 10$ or angle OAB or angle $OBA = 30$ for angle $ACB = (180 - 30 - 30) \div 2 (= 60)$ or angle $OCD = 90$ or angle $OCB = 50$ for angle $ACD = 100$ and one correct appropriate circle theorem from <u>alternate segment</u> theorem <u>angle</u> at the <u>centre</u> is <u>twice</u> the <u>angle</u> at the <u>circumference</u> the <u>tangent</u> to a circle is perpendicular to the <u>radius</u>	angle $AOB = 120$ gets M1M1 Award M3C0 for answer of 100 with no correct appropriate circle theorem Underlined words need to be shown Reason needs to be linked to their method, which can be implied from correctly identified angles (stated or written on the diagram)