

Angles

June 2024 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
3	reflex	B1	cao	

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Question	Answer	Mark	Mark scheme	Additional guidance
8 (i)	50	M1	for $360 - 220 - 90$ oe	
		A1	cao	
(ii)	Reason	C1	<p>for <u>angles</u> at a <u>point</u> add up to 360</p> <p>Acceptable examples</p> <ul style="list-style-type: none"> • A <u>full turn</u> adds up to 360 • <u>Full rotation</u> is 360 <p>Not acceptable examples</p> <ul style="list-style-type: none"> • Angles in a circle add to 360 • A whole circle adds up to 360 • It must add up to 360 degrees • $220 + 90 = 310$, $360 - 310$ • Angles at a point add up to 180 • Angles on a straight line add to 180 	<p>Underlined words need to be shown</p> <p>Note: If line <i>AO</i> or <i>OC</i> or <i>BO</i> is extended and used to find x in (i) then allow C1 for <u>angles</u> on a straight <u>line</u> add to 180</p>

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Question	Answer	Mark	Mark scheme	Additional guidance
8 (a)	310	M1	for $360 - 50$	
		A1	cao	
(b)	Explanation	C1	<p>for explanation relating to the type of angle 50° is, or an explanation why it is not an obtuse angle</p> <p>Acceptable examples It's (50°) an acute angle an angle below 90 is acute because it (50°) is less than 90 It (50°) is too small to be an obtuse angle an obtuse angle is greater than 90 (but less than 180) an obtuse angle is greater than 50</p> <p>Not acceptable examples because 50° is not an obtuse angle an angle of 50° is a reflex angle an obtuse angle is all angles greater than 90 an obtuse angle is an angle greater than 120 an obtuse angle <u>is 90</u> or more</p>	<p>Do not accept contradictions in the answer, eg. "an obtuse angle is greater than 180 so 50 is an acute angle" or "an obtuse angle is greater than 90 and less than 270"</p>

June 2020 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
8 (a)(i)	30	B1	cao	
(ii)	Reason	C1	reason, eg <u>angles</u> on a straight <u>line</u> add up to 180°	
(b)	Explanation	C1	for explanation eg the two angles don't add up to 360 Acceptable examples $90 + 280 = 370$ The two angles don't add up to 360 280 should be 270 Angles around a point equal 360° It should be 360 (in a circle) It should be 80 It should not be a right angle It cannot be 280° Not acceptable examples They don't add up to 180 365 degrees in a circle \square means 90 degrees	

November 2022 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
9 (a)	290	B1	cao	Accept 290°. May be seen on diagram provided no ambiguity
(b)	reason	C1	for correct reason: <u>Angles</u> at a <u>point</u> add to 360	The key words underlined must be present with the 360 implied if not stated by use in part (a)

November 2021 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
13 (i)	21	M1	for $180 - 75 - 84$	
		A1	cao	Angle may be indicated on the diagram
(ii)	Reason given	C1	for reason that <u>Angles</u> on a straight <u>line</u> add up to 180	The key words underlined must be present There should be no incorrect reasons given

November 2021 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
15	Explanation	C1	for explanation Acceptable examples They do not add to 360 They add to 100 too least It is missing a 100 angle / It needs 100 more Because the total has to be 360 A whole circle is 360 Not acceptable examples They add up to 260 One of the angles is wrong A shape with 4 angles adds up to 360	