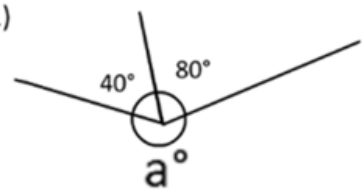
LO: Angles around a point.

There are 360 degrees in a full turn. Angles around a point total of 360 degrees.

Calculate the value of angle a

1)



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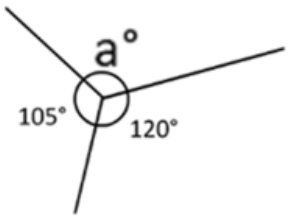
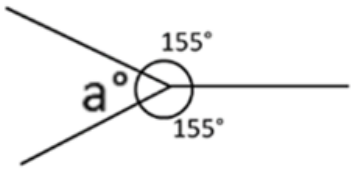


3)



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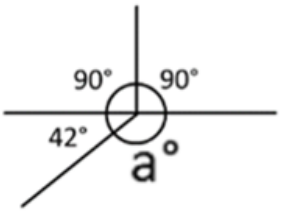

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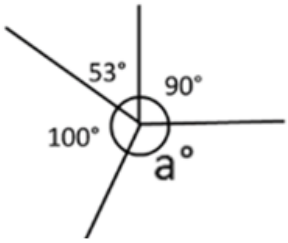
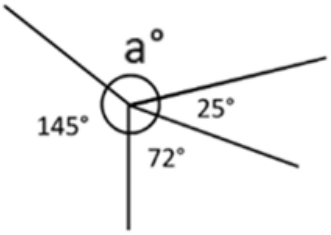


6)



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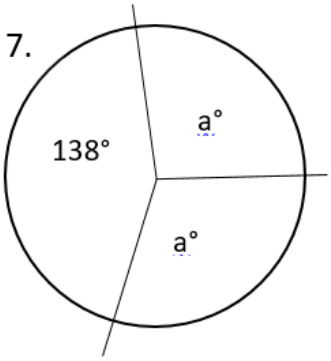
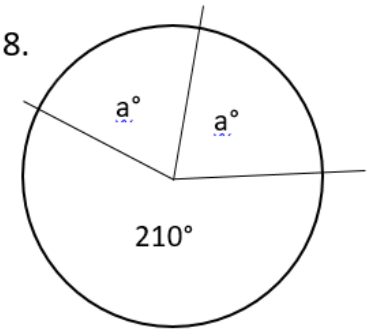
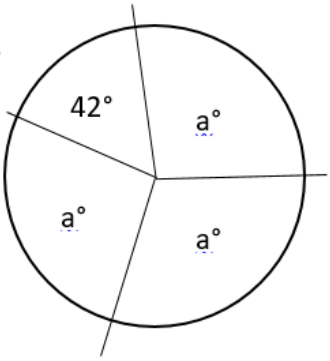


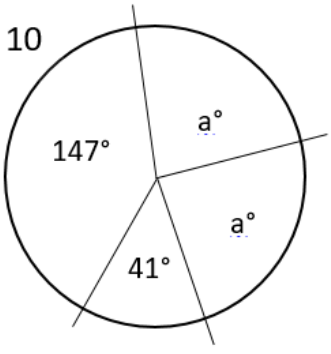
8.



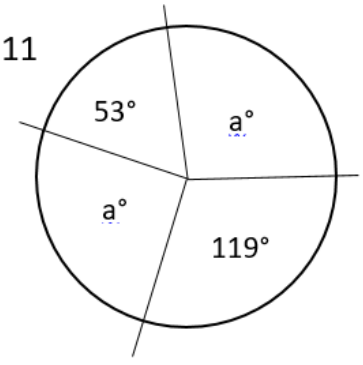
9.



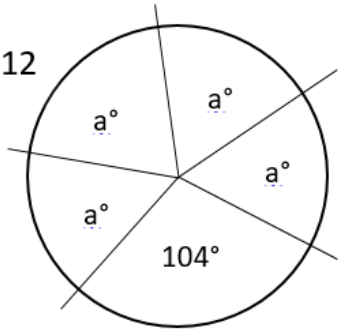
10



11

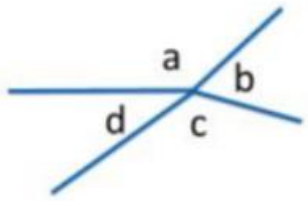


12



Challenge 1

What could the value of a, b, c and d be?

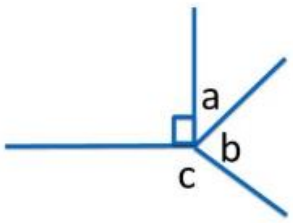


A	B	C	D
a = 145°	a = 155°	a = 150°	a = 50°
b = 55°	b = 50°	b = 50°	b = 110°
c = 115°	c = 125°	c = 120°	c = 65°
d = 35°	d = 40°	d = 40°	d = 135°

Which option is correct? Explain why the other options are incorrect.

Challenge 2

What is the sum of the angles a, b and c?



A	B	C	D
a + b + c =180°	a + b + c = 90°	a + b + c = 270°	a + b + c = 360°

Which option is correct? Explain why the other options are incorrect.