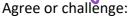
## GCSE 7+ Session 6 **Independent Practice Angles and Circles**



Revise, refresh, recall the core knowledge and skills:

Copy and complete this table, filling in the empty cells. 1

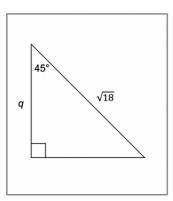
	. ,	,	• •		
	Name of <b>regular</b> polygon	Number of sides	Size of <b>each</b> exterior angle	Size of <b>each</b> interior angle	
	Pentagon	5	72°	1080	
	Hexagon \	6	160	110°	
	Oct Lop-	8	45	135°	
	Decroph	, 10	÷\\\\\_36\\\\	1440	
χſ	( Dodecagon	12	1 30, 1:1	1401	at x7
	24-gon <b>V</b>	24	1120 R.C	165° V	
X	30-gon	30	1201 =3	168	
	~ 00 - 0 h C	40	y "V "	176°	
	760-006	360	10	179°	
	Agree or challenge:	Chillenge			



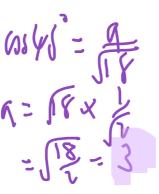
the size of each interior angle of a regular polygon is directly proportional to the number of sides of the polygon

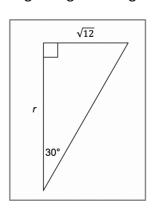
the size of each exterior angle of a regular polygon is inversely proportional b) to the number of sides of the polygon

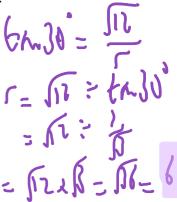
2 Work out the unknown sides or angles in these right-angled triangles:

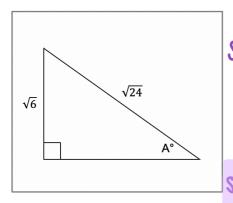


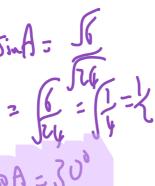
11

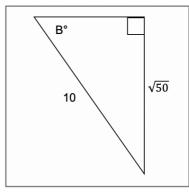




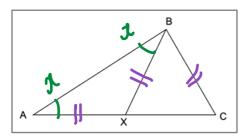








Prove that angle BCX is twice angle ABX.



$$\Rightarrow A\hat{X}0 = 10^{-10}$$

=) PCX is brice ADX [

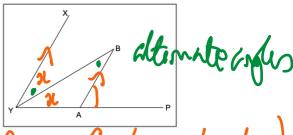
Work out x and y.

O is the centre of the circle.

AB and AC are tangents.

ASC = 90-2 (target perpendicula to cool us) ASC also = 152 (Alternate Segrent theorem)

4 XY is parallel to BA. YB bisects angle XYP. Prove that AY = AB.



WithXYI





4x