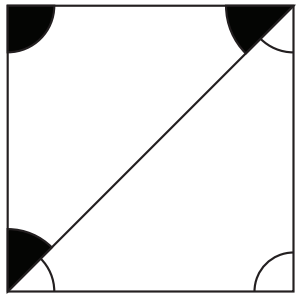
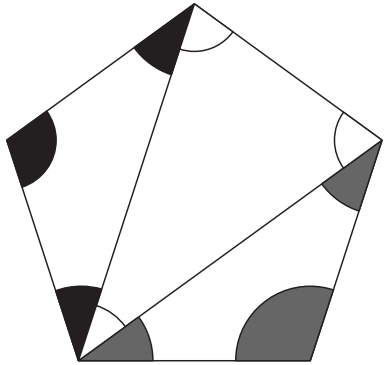
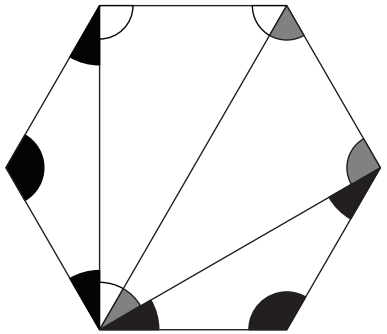
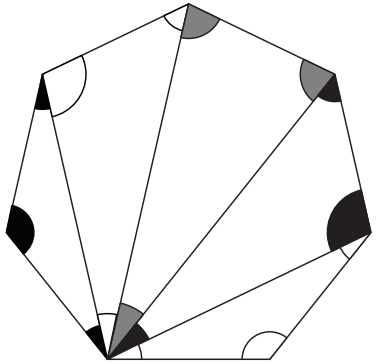
ex S2.5 Angles in polygons

Answer

a Complete the table:

				
3 sides 1 triangle	4 sides 2 triangles	5 sides [3] triangles	[6] sides [4] triangles	[7] sides [5] triangles
Total of interior angles: $1 \times 180^\circ = 180^\circ$	*Total of interior angles:* $2 \times 180^\circ = 360^\circ$	*Total of interior angles:* $[3] \times 180^\circ = 540^\circ$	*Total of interior angles:* $[4] \times 180^\circ = [720]^\circ$	*Total of interior angles:* $[5] \times 180^\circ = [900]^\circ$

b Complete the rule:

number of triangles = number of sides − [2]