Exterior Angles in Regular Polygons

- (a) Find the size of one exterior angle in a regular pentagon.
- (b) Find the size of one exterior angle in a regular octagon.
- (c) Find the size of one exterior angle in a regular 12-sided polygon.
- (d) Find the size of one exterior angle in a regular 20-sided polygon.
- (a) A regular polygon has an interior angle of 144° . Find the size of one exterior angle.
- (b) A regular polygon has an interior angle of 120° . Find the size of one exterior angle.
- (c) A regular polygon has an interior angle of 156° . Find the size of one exterior angle.
- (a) A regular polygon has an exterior angle of 40° . Find the number of sides the regular polygon has.
- (b) A regular polygon has an exterior angle of $20^{\circ}.$ Find the number of sides the regular polygon has.
- (c) A regular polygon has an exterior angle of 10° . Find the number of sides the regular polygon has.
- (a) The interior angle of a regular polygon is five times its exterior angle. Calculate the number of sides this regular polygon has.
- (b) The exterior angle of a regular polygon is one quarter of the interior angle. Find the name of this regular polygon.
- (c) The interior and exterior angle of a regular polygon are in the ratio 14:1. Find the number of sides this regular polygon has.

- (a) 72°
- (b) 45°
- (c) 30°
 - (d) 18°
- (a) 36°
- (b)60°
- (c)24°
- (a) 9
- (b) 18
- (c)36
- (a) Exterior orgle = $\frac{180}{6}$ = 30° 12 51deS
- (b) Exterior angle = 180 = 36°

Decagon

(c) Exterior orgle = 180 = 12°

3051deS