Tessellation

An arrangement of shapes fitted to-gether, especially of polygons in a repeated pattern without gaps or overlapping.
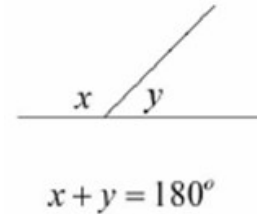
What careers would use these skills?

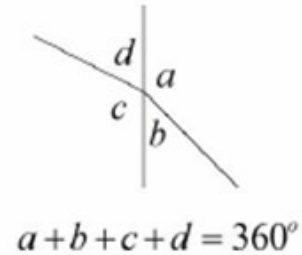Urban and regional planners, surveying engineers, architects, cartographer (for drawing maps)

Angles on a straight line

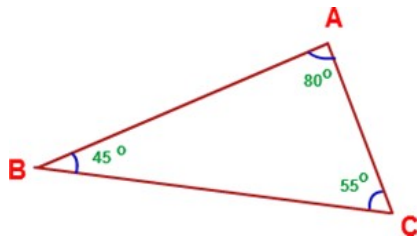Angles on a straight line add up to 180.

$$x + y = 180^o$$

Angles at a point

Angles at a point add up to 360°

$$a + b + c + d = 360^o$$

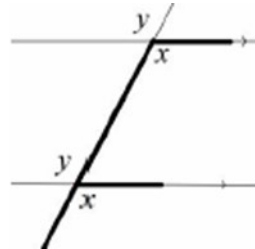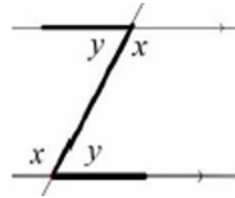## Angles in a triangle

Angles in a triangle add up to 180.

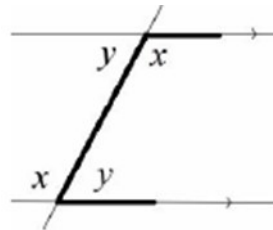Equilateral triangles have angles of 60°

Angles in parallel lines

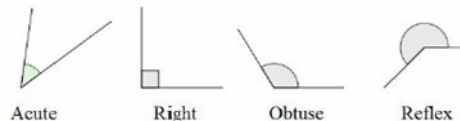**Alternate angles** are equal. They look like a Z (but don't say that in an exam!)

Corresponding angles are equal. They look like F an-gles, but never say this in the exam.

Co-interior angles add up to 180°. They look like C angles, but never say this in the ex-am.

Don't forget about the 4 different types of angle:

Acute   Right   Obtuse   Reflex

Interior angles

Sum of interior angles = (number of sides—2) x 180

Eg. For a decagon

(10—2) x 180 = 1440°

So one interior angle of a decagon is 1440 ÷ 10 = 144°

Exterior angles

Size of one exterior angle = 360 ÷ number of sides

Eg. An exterior angle of a regular octagon

360 ÷ 8 = 45°

Exterior Angle 115°

Interior Angle 65°

180°

Interior + exterior = 180°

Angles in a quadrilateral

Angles in a quadrilateral add up to 360°.

126°   75°

65°   93°