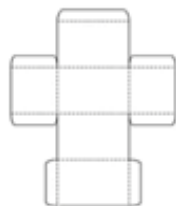


Geometry Mat - Greater Depth Year 5

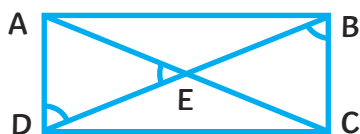
Shapes

Identify 3D shapes, including cubes and other cuboids, from 2D representations.

Draw an accurate net for a cuboid with given measurements.



Use the properties of rectangles to deduce related facts and find missing lengths and angles.

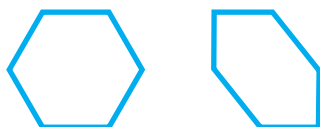


$AB = 10.4$ cm, explain how you know DC ?

$\angle DBC = 62^\circ$, what is $\angle AED$?

Distinguish between regular and irregular polygons based on reasoning about equal sides and angles, knowing some of the properties of regular polygons.

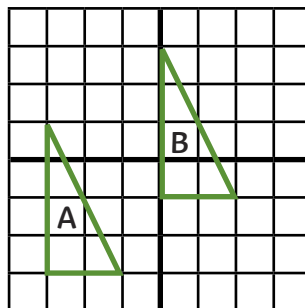
A regular polygon has equal sides and angles.



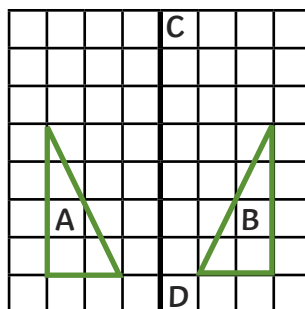
What is the internal angle of a regular pentagon, hexagon, octagon and decagon?

Reflection and Translation

Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.



The triangle A is translated three squares to the right and two squares up to triangle B.

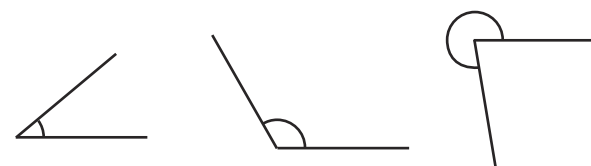


The triangle A is reflected about the line CD to triangle B.

Angles

Know angles are measured in degrees: estimate accurately and compare acute, obtuse and reflex angles.

Estimate and name each angle.



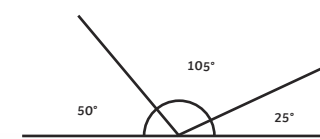
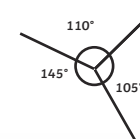
Draw given angles, and measure them in degrees ($^\circ$).

Draw an angle of 34° .

Measure the angles above.

Identify:

- angles at a point and one whole turn (360°);
- angles at a point on a straight line and a turn (180°);
- other multiples of 90° .



Know the multiples of right angles in degrees up to a full turn.