

The Line 8: Construction 21: Centroid

* this lesson is the same as Geometry 5

Prerequisite Knowledge

The Line 1-6

Geometry 1,2

LEARNING WORK:

- The centroid is the point of intersection of the **medians** of a triangle.
- A median goes through the midpoint of a line and its opposite vertex.
- The centroid is the centre of gravity of the triangle.
- The centroid is always inside the triangle.
- The centroid divides the medians in a ratio of 2:1, vertex $\rightarrow$ centroid : centroid $\rightarrow$ midpoint.

Questions from GKTuition Tutorial:

Example 1:

Constructing the centroid of a triangle

Question 1:

Given the triangle ABC, with vertices

$A(3, 9)$ $B(0, 0)$ $C(12, 0)$

Use co-ordinate geometry methods to find the co-ordinates of the centroid of the triangle.

