

## What's Going On?

**Checking In** F.F.M.

**Minds on** Jargon

**Action!** Distance from a Point to a Line

**Consolidation** Clear / Unclear

**Learning Goal - I will understand how to find the shortest distance from a point to a line.**

## Minds on

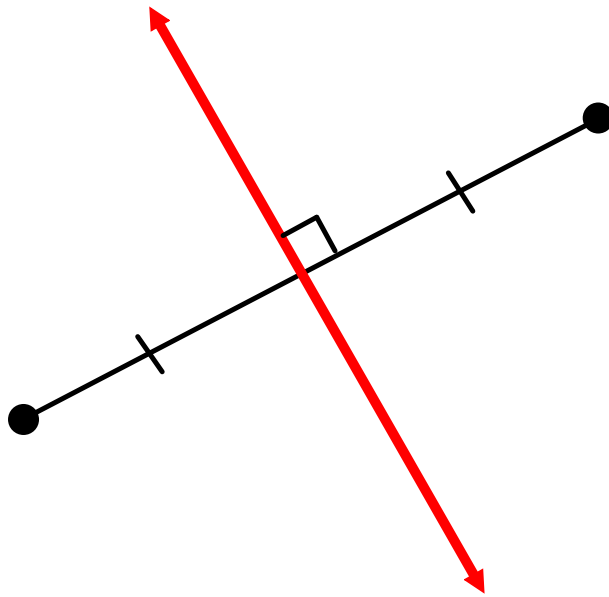
# Silent Pictionary

I am going to show you a diagram.

As quick as you can, write down the proper term (drawn in red) on your white board.

## Minds on

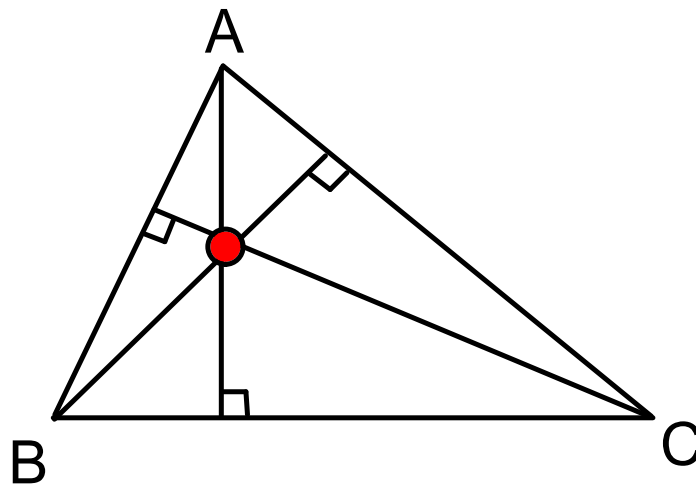
# Silent Pictionary



Right Bisector

Minds on

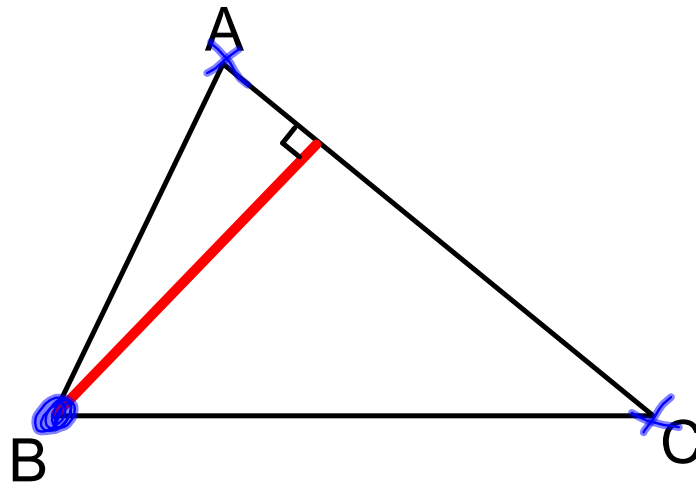
## Silent Pictionary



Orthocentre

Minds on

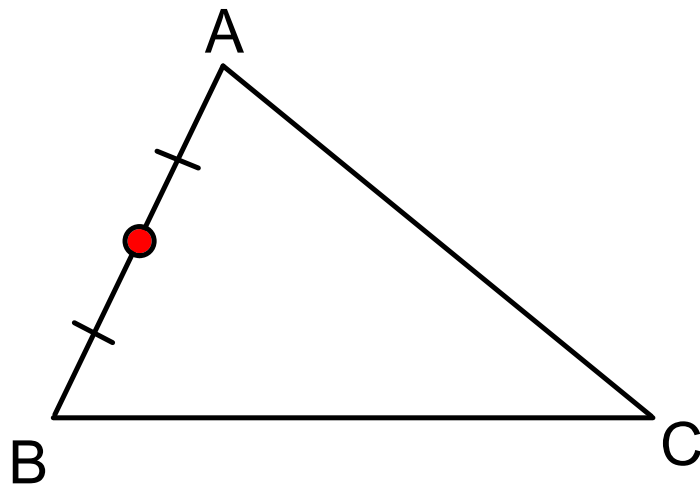
## Silent Pictionary



Altitude

## Minds on

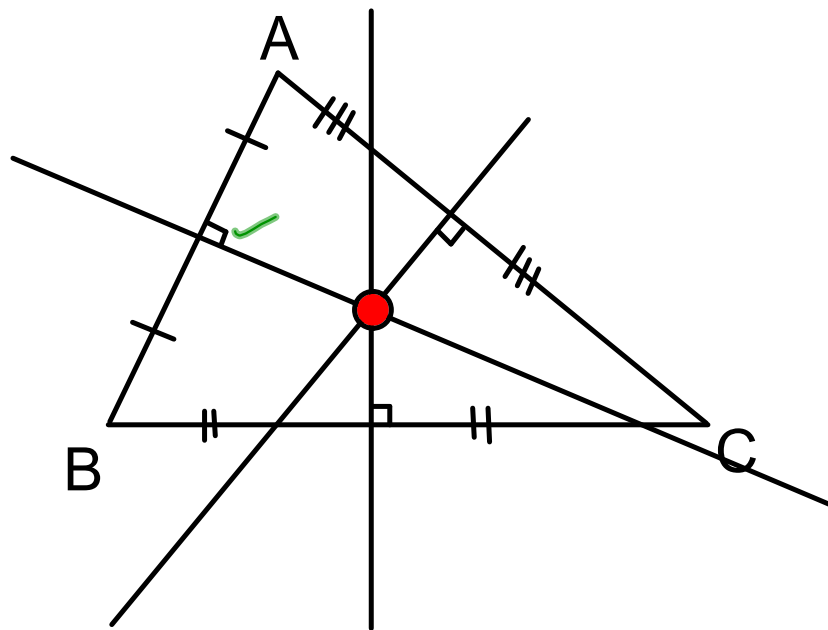
# Silent Pictionary



Midpoint

## Minds on

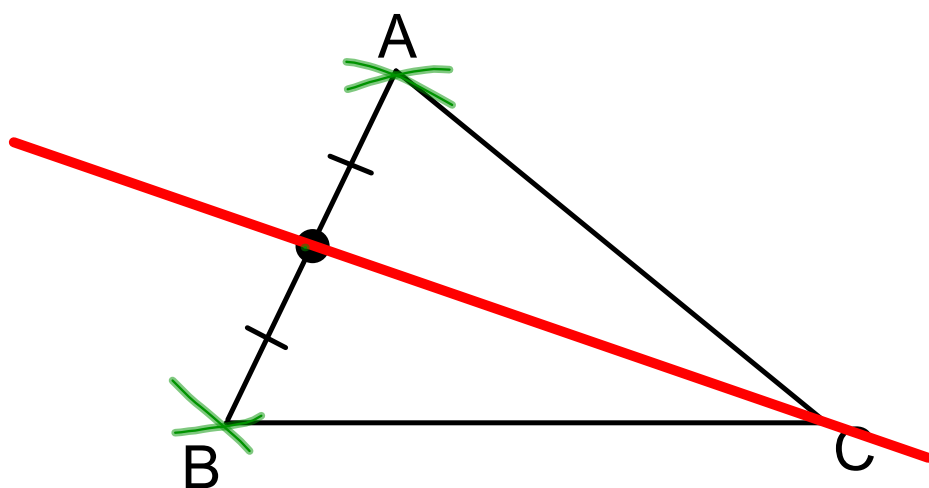
# Silent Pictionary



Circumcentre

Minds on

# Silent Pictionary

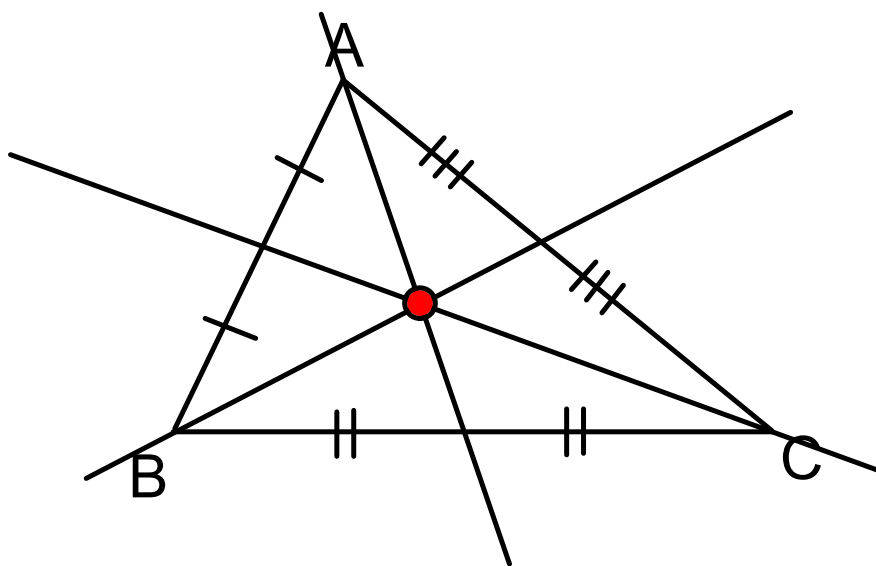


Median from C to AB



Minds on

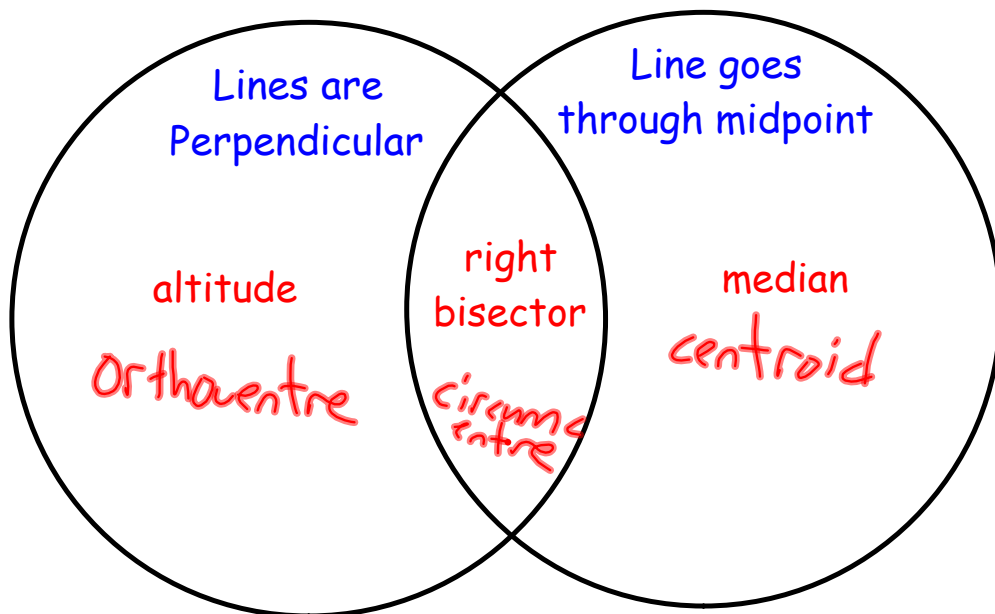
# Silent Pictionary



Centroid

Minds on

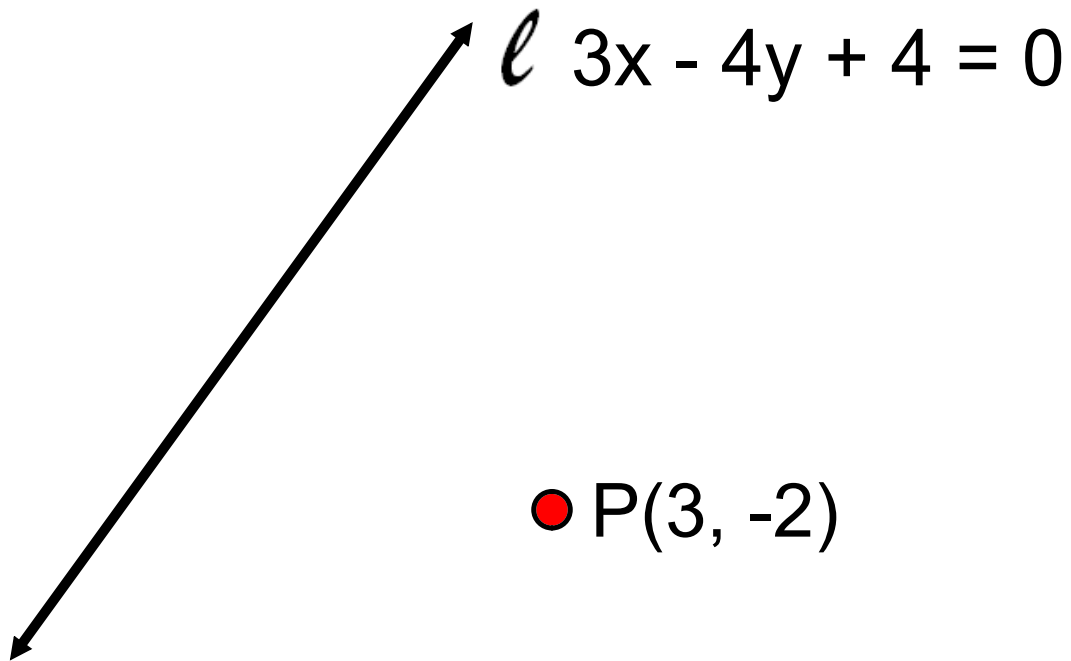
# Venn Diagram



**Action!**

## Distance from a Point to a Line

Determine the shortest distance from the point to the line.



Find the shortest distance from a point  $P$  to a line  $\ell$

1. Find the slope of  $\ell$
2. Determine the slope of a line perpendicular to  $\ell$
3. Find the equation of the line perpendicular to  $\ell$  through  $P$ .
4. Find the point where  $\ell$  and the line found in Step 3 intersect.
5. Find the length of the line segment from  $P$  to the POI found in step 4.

## Consolidation

# Homework

Pg. 95

# 2, 6, 8, 14