

What's Going On?

Checking In

Minds on

Tricky?

Action!

Investigation

Consolidation

Exit Question

**Learning Goal - I will explore and discover the properties of
Midpoints and Medians in triangles.**

Action!

Midpoints and Medians

iPad

Investigation!

Action!

Midpoints and Medians

A line segment joining the midpoints of
two sides of a triangle is parallel
to the third side and half as long.

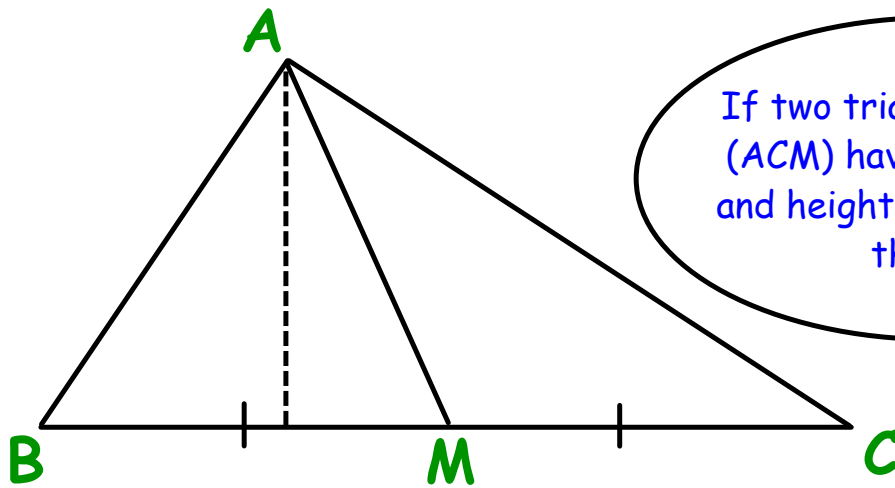
Action!

Midpoints and Medians

The height of a triangle formed by joining the midpoints of two sides is half the height of the original triangle.

Action!

Midpoints and Medians



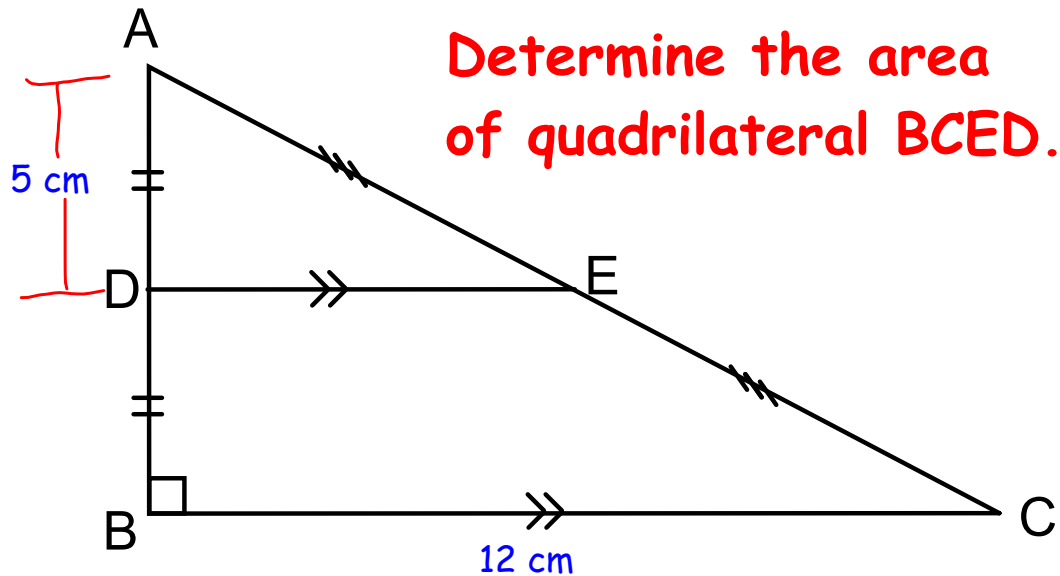
If two triangles (ABM) and (ACM) have the same base and height... their areas are the same!

The median of a triangle bisects

its area.

Consolidation

Exit Question



$$\begin{aligned} \text{Area of } \triangle ABC &= \frac{12 \times 10}{2} \\ &= 60 \text{ cm}^2 \end{aligned}$$

$$\begin{aligned} \text{Area of } \triangle ADE &= \frac{60}{4} \\ &= 15 \text{ cm}^2 \end{aligned}$$

So area of quadrilateral is

$$60 - 15 = 45 \text{ cm}^2$$