

What's Going On?

Checking In

Minds on

Makin' a Plan!

Action!

iPad Investigation

Consolidation

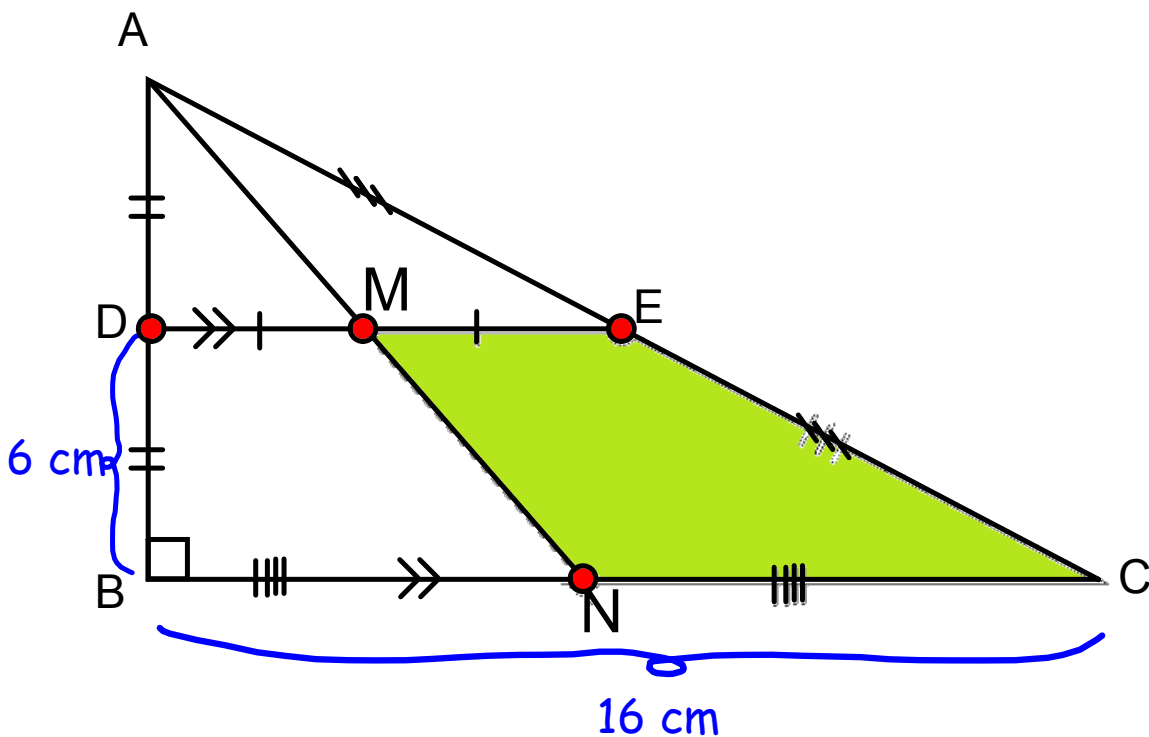
Exit Question

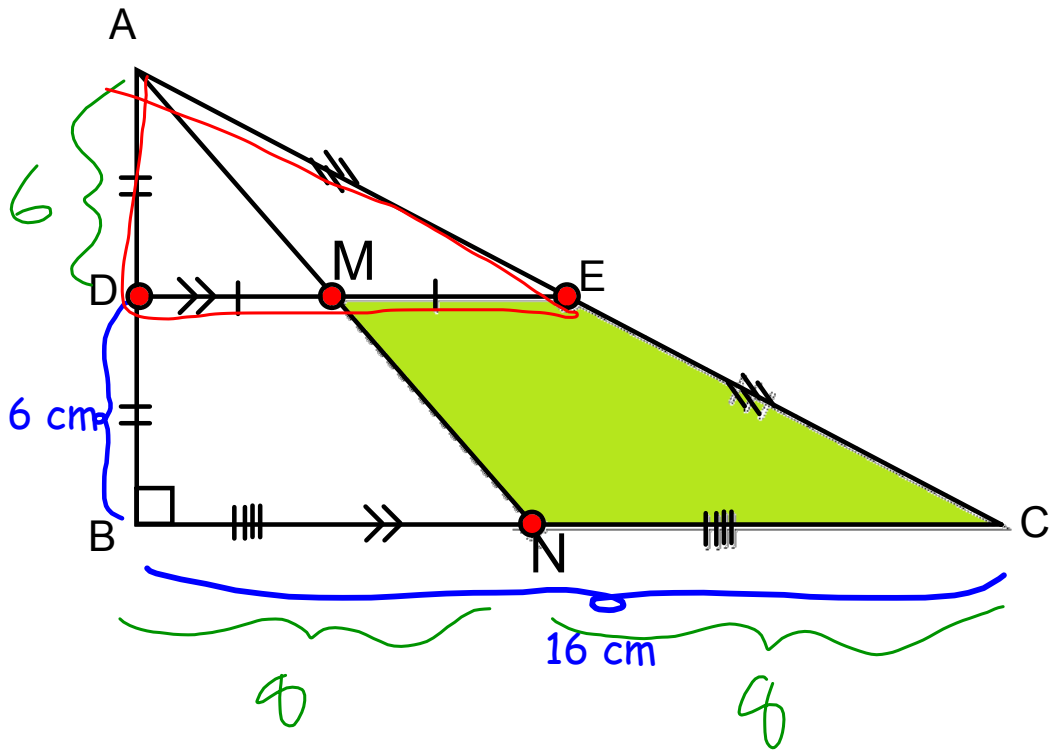
Learning Goal - I will explore, and discover, the properties of Midpoints and Diagonals in Quadrilaterals.

Midpoints and Medians

With yesterday's lesson stuff...
Determine the area of the shaded portion.
Be sure to show/explain your work!

COPY THE DIAGRAM FIRST





$$\text{Area of } ABC = \frac{16 \times 12}{2} = 96 \text{ cm}^2$$

$$\text{Area of } ADE = 24 \text{ cm}^2$$

$$\text{Area of } ACN = 48 \text{ cm}^2$$

$$\text{Area of } AEM = 12$$

$$\text{Area} = 48 - 12 = \underline{36 \text{ cm}^2}$$

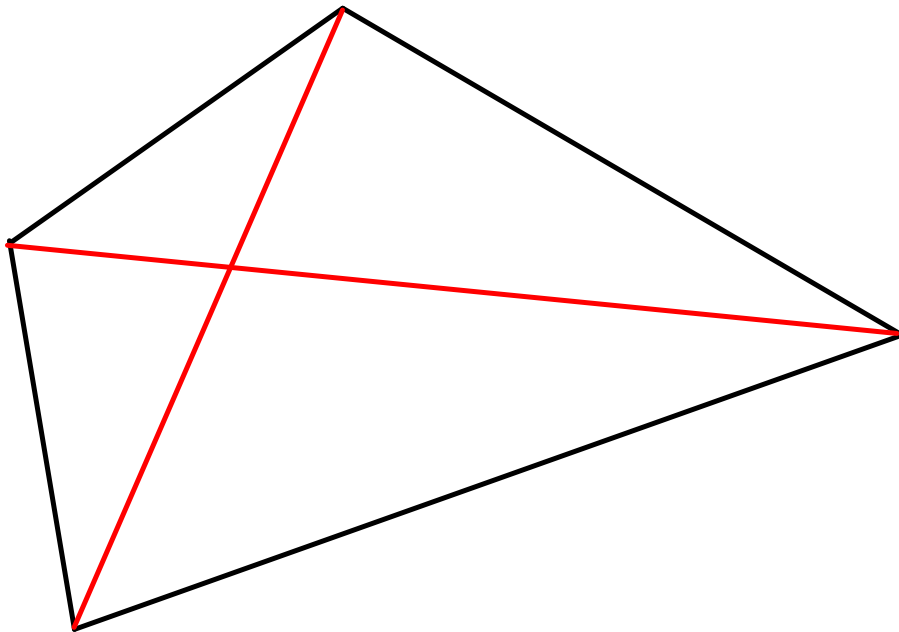
Unit 6: Geometric Relationships

Topic #5

Midpoints and Diagonals in Quadrilaterals

Minds on

What's a diagonal?



Action!

Quadrilateral Investigations

Joining the midpoints of the

sides of any quadrilateral

produces a parallelogram

with half the area

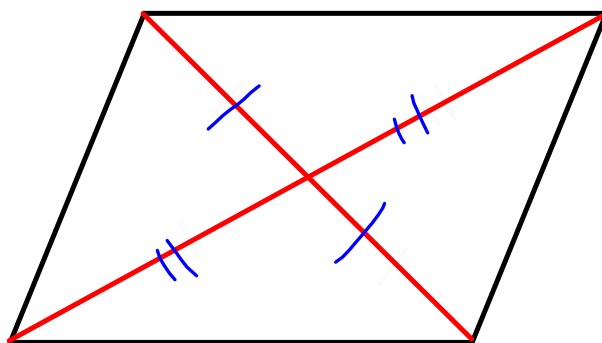
of the original quadrilateral.

Action!

Quadrilateral Investigations

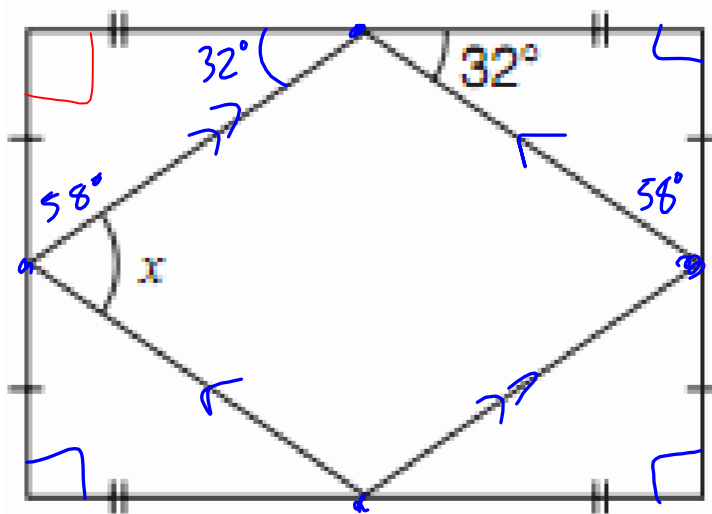
The diagonals of a parallelogram

bisect each other.



Consolidation**Exit Question**

Copy into today's LGL.
Determine the measure of angle x .
Justify!



$$x = 64^\circ$$

