Watch. Practice. Understand. | Lesson 083

Properties of A Trapezoid, Midsegment of A Trapezoid, and Proving an Isosceles Trapezoid

Watch the matching video: https://www.youtube.com/watch?v=zXDOeJm5XJw

Practice focus: Polygons and quadrilaterals

Original extra practice matched to the listed lesson topic.

Name: _____ Date: _____ Show your reasoning and check units.

01 Find the sum of the interior angles of a hexagon.

02 A regular polygon has exterior angle 24°. How many sides does it have?

03 A parallelogram has one angle 70°. Find all its angles.

04 A trapezoid has bases 8 and 14. Find its midsegment length.

Worked answers | Lesson 083

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01 Find the sum of the interior angles of a hexagon.

(6 - 2)180° = 720°.

02 A regular polygon has exterior angle 24°. How many sides does it have?

n = 360/24 = 15 sides.

03 A parallelogram has one angle 70°. Find all its angles.

Opposite angles are equal; adjacent angles are supplementary. Angles: 70°, 110°, 70°, 110°.

04 A trapezoid has bases 8 and 14. Find its midsegment length.

Midsegment = (8 + 14)/2 = 11.