

Watch. Practice. Understand. | Lesson 076

Big Idea Geometry Chapter 7 Polygons with Interior and Exterior Angles

Watch the matching video: <https://www.youtube.com/watch?v=biKvIwkpX50>

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 076

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

$$(6 - 2)180^\circ = 720^\circ.$$

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

$$n = 360/24 = 15 \text{ sides.}$$

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.

$$\text{Midsegment} = (8 + 14)/2 = 11.$$