GEOMETRY · CLASSWORK

# Find an Exterior Angle Measure

SCORE / 25

## 01 Part A · Practice

Each exterior angle of a regular $n$-gon measures $\frac{360°}{n}$, and $n = \frac{360°}{\text{exterior angle}}$.

**EXAMPLE**

**Each exterior angle of a regular polygon is 24°. How many sides?**

1. Exterior angles add to 360°.
2. $n = 360 \div 24 = 15$ sides.

**1** ●○○ Find the measure of each exterior angle of a regular 20-gon.

**2** ●○○ Each exterior angle of a regular 36-gon is $(4x - 2)°$. Find $x$.

**3** ●○○ Each exterior angle of a regular polygon measures 60°. How many sides does it have?

**4** ●○○ Each exterior angle of a regular polygon measures 45°. How many sides does it have?

**5** ●○○ Find the measure of each exterior angle of a regular 24-gon.

**6** ●○○ Each exterior angle of a regular 18-gon is $(6x + 8)°$. Find $x$.

**7** ●○○ Each exterior angle of a regular polygon measures 36°. How many sides does it have?

**8** ●○○ Each exterior angle of a regular 36-gon is $(3x - 17)°$. Find $x$.

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Preview - the full worksheet and its answer key are at primeworksheet.com