

## Example 2

Use the Exterior Angle Theorem

### Check

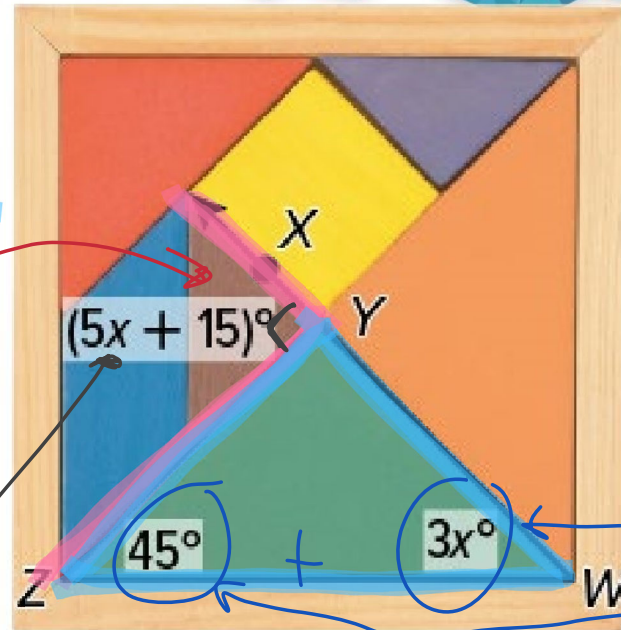
**PUZZLES** Find the measure of  $\angle XYZ$ .

$$\begin{array}{r} 45 + 3x = 5x + 15 \\ -3x \quad -3x \\ \hline 45 = 2x + 15 \\ -15 \quad -15 \\ \hline 30 = 2x \\ \frac{30}{2} = \frac{2x}{2} \end{array}$$

Exterior Angle

$$x = 15$$

$$\begin{array}{l} (5)(15) + 15 = 90 \\ 75 + 15 = 90 \end{array}$$



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