How many sides are in a polygon with the sum of its interior angles equal to 2340°?

(2) plug in
$$\frac{2340^{\circ} = (n-2) \times 180^{\circ}}{180^{\circ}}$$

$$\frac{13}{12} = n-2$$
The polygon has 15 sides.

Which polygon has an interior angle of 140°?

$$0 = \frac{(n-2) \times 180^{\circ}}{0}$$

15=n