## 6-1 Solve It!



You don't need to draw all the diagonals from every vertex.

## SolVE Getti Sketch a convex draw all the you make abo polygon and the

## 6-1 Lesson Quiz

1. What is the sum of the angle measures of a 14 -gon?
2. What is the measure of each angle of a regular pentagon?
3. What is $m \angle C$ in pentagon $A B C D E$ ?

4. What is the measure of an exterior angle of a regular pentagon?


## 5. Do you UNDERSTAND? How many sides does a

 regular polygon have if each exterior angle is $24^{\circ}$ ? How do you know?
## Answers

## Solve It!

Answers may vary. Sample:


The number of $\mathbb{S}$ formed by the diagonals is 2 less than the number of sides of the polygon.

## Lesson Quiz

1. 2160
2. 108
3. 122
4. 72
5. The sum of the exterior angles of any polygon is $360^{\circ}$, so the number of sides is $\frac{360}{24}$ or 15 .
