## QUESTION:

a 10 in pizza is cut into 8 slices. How many square inches of topping does Janelle consume if she has just one slice?

## SOLUTION:

The area of a pizza is $S_{\text {pizza }}=\pi r_{\text {pizza }}^{2}=\frac{\pi d_{\text {pizza }}^{2}}{4}$, here $\mathrm{d}_{\mathrm{pizza}}=10$ inches.
The pizza is cut into 8 slices, hence the area of one slice is
$S_{\text {slice }}=\frac{S_{\text {piza }}}{8}=\frac{\pi d_{\text {pizza }}^{2}}{32}$
$S_{\text {slice }}=\frac{3.14 \cdot 10^{2}}{32}=9.8$ square inches
So Jane consume one slice, or 9.8 square inches of pizza.

## ANSWER:

## 9.8 square inches

