## Answer the following. Show your solutions.



| $A=S \times S$ | $A=$ Area |
| :--- | :--- |
| $P=4 \times S$ | $P=$ Perimeter |
| $S=$ side |  |

S = side

$A=I \times w \quad A=$ Area $P=2(a+b) \quad l=$ length w = width

## P = Perimeter

$a, b=$ sides

Find the side length and perimeter of a square if the given area is $324 \mathbf{~ i n}^{2}$.


If the perimeter of a rectangle is 92 yd and the length is 14 yd, find the width and area.

width


The length of a rectangle is 101 cm and the width is 86 cm . Find the area and perimeter.


## Answer the following. Show your solutions.



| $A=S \times S$ | $A=$ Area |
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P = Perimeter
$a, b=$ sides

Find the side length and perimeter of a square if the given area is $324 \mathbf{~ i n}^{2}$.

$$
\begin{array}{lr}
\begin{array}{ll}
A=S & \times S \\
324=S^{2}
\end{array} & P=4 \times \text { S } \\
\sqrt{324}=S & \\
18=5 \times 18 \\
& =72 \\
\hline 18 \text { in } & \\
\text { length } & 72 \text { in } \\
\hline & \text { Perimeter }
\end{array}
$$

If the perimeter of a rectangle is 92 yd and the length is 14 yd , find the width and area.

$$
\begin{array}{lc}
P=2(a+b) & \\
92=2(14+b) & A=1 \times \text { w } \\
92=28+2 b & =14 \times 32 \\
92-28=2 b & =448 \\
64=2 b & \\
64 \div 2=b & \\
32=b & 448 y^{2} \\
\hline 32 \text { yd } & \text { Area }
\end{array}
$$

The length of a rectangle is 101 cm and the width is 86 cm . Find the area and perimeter.

$$
\begin{array}{rl}
A=I \times \mathrm{w} & P=2(a+b) \\
=101 \times 86 & \\
=8686 & =2(101+86) \\
& \\
& =374 \\
\hline 8686 \mathrm{~cm}^{2} & \\
\hline \text { Area } & \\
\hline
\end{array}
$$

