Answer the following. Show your solutions.


A rhombus has an area of $56 \mathrm{~m}^{2}$ and height of 7 m . Find the base length and perimeter.

$$
\begin{gathered}
\begin{array}{l}
A=b \times h \\
56=b \times 7 \\
56 \div 7=b \\
8=b
\end{array} \\
\hline 8 \mathrm{~m} \\
\text { base length }
\end{gathered}
$$



| $A=b \times h$ | $P=2(a+b)$ |
| :--- | :--- |
| $A=$ Area | $P=$ Perimeter |
| $b=$ base | $a=$ side length |
| $h=$ height | $b=$ base length |

Calculate the area and perimeter of a parallelogram if the side length measures 47 in , base length is 68 in , and height is 41 in .


Area


Perimeter

The length of the longer diagonal of a rhombus is 12 mm , while the shorter diagonal measures 10.7 mm . Calculate its area and perimeter if its base length is $\mathbf{8} \mathbf{~ m m}$.


Area


Perimeter

height


Perimeter

Find the base length and area of a parallelogram if its perimeter measures 1888 cm , side length is 40.33 cm , and height is 20 cm .

base length


## Answer the following. Show your solutions.



A rhombus has an area of $56 \mathrm{~m}^{2}$ and height of 7 m . Find the base length and perimeter.

$$
\begin{aligned}
& A=b \times h \\
& 56=b \times 7 \\
& 56 \div 7=b \\
& 8=b
\end{aligned}
$$

8 m
base length


Calculate the area and perimeter of a parallelogram if the side length measures 47 in , base length is 68 in , and height is 41 in .

$$
\begin{array}{rlr}
\mathrm{A}=\mathrm{b} \times \mathrm{h} \\
=68(41) & \mathrm{P}=2(\mathrm{a}+\mathrm{b}) \\
& =2788 & \\
& =2(47+68) \\
\hline 2788 \text { in }^{2} & & =23(115) \\
\hline \text { Area } & & 230 \text { in } \\
\hline
\end{array}
$$

