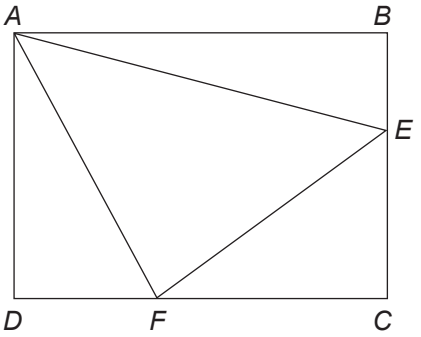
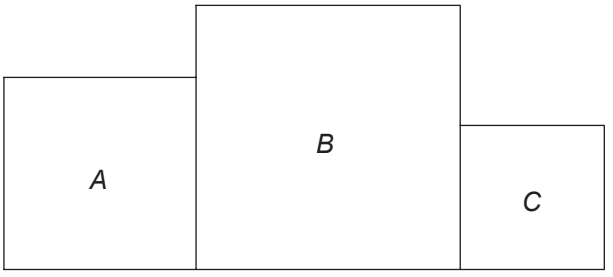
More on Area and Perimeter

1 The area of rectangle *ABCD* is 36 cm^2.
The areas of ΔABE and ΔADF are 9 cm^2 and 12 cm^2 respectively.
Find the area of ΔAEF.
[The figure is not drawn to scale.]



Ans: _____ cm^2

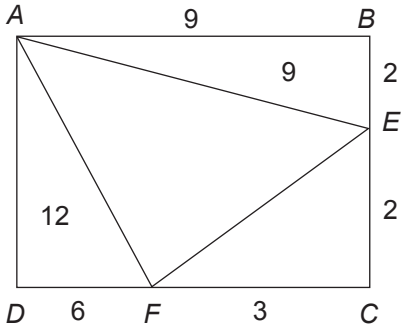
2 The total area of the three squares *A*, *B* and *C* add up to 221 cm^2.
Find the perimeter of the figure.



Ans: _____ cm

Solution to
More on Area and Perimeter

1



Suppose the length $\rightarrow$ 9 cm, the width $\rightarrow$ 4 cm

$\Delta CEF \rightarrow \frac{1}{2} \times 2 \times 3$

$= 3 \text{ cm}^2$

Area of $\Delta AEF \rightarrow 36 - 9 - 12 - 3 = 12 \text{ cm}^2$

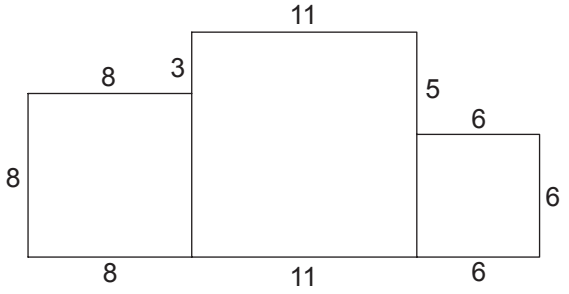
Ans: 12 cm²

2 Make a list of square numbers:

1, 4, 9, 16, 25, (36), 49, (36), 81, 100, (121), ...

$36 + 64 + 121 = 221 \text{ cm}^2$

Sides of 3 squares: 8 cm, 11 cm, 6 cm respectively.



$8 \times 3 + 3 + 11 \times 2 + 6 \times 3 + 5 = 24 + 3 + 22 + 18 + 5 = 72 \text{ cm}$

Ans: 72 cm