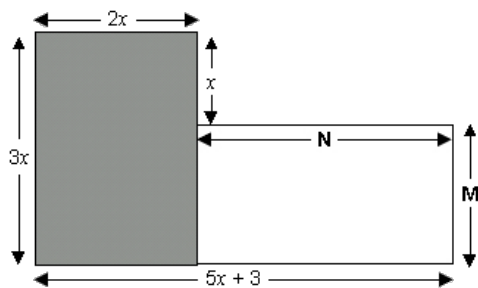


# Length, area and algebra

This task is about using algebraic expressions to find length and area of a shape.



[Not drawn to scale]

a) Write an expression, in its simplest form, for the length of

side M:

side N:

b)

i) If the value of  $x$  was 11 cm what would be the length of the longest side?

Longest side =  cm

ii) Write an expression to find the area of the shaded rectangle.

iii) Calculate the area of the shaded rectangle if the value of  $x$  was 5 cm.

Area of shaded rectangle =   $\text{cm}^2$

c) If the length of the longest side was 63 cm, solve an equation to find the value of  $x$ .

Show all your working in your calculation.

$x =$   cm