

**14th September**

Corbettmaths

$$f(x) = x^2 - 3$$

$$g(x) = 2x + 1$$

$$h(x) = \frac{x}{2}$$

Find  
 $fg(x)$ Find  
 $gh(x)$ Find  
 $g^{-1}(x)$ Solve the inequality  $x^2 - 9x + 14 \leq 0$ 

A group of friends have been surveyed.

40% have been to Canada.

82% have been to France.

11% have been to neither Canada or France.

Find the percentage of the group that have been to Canada and France.

Explain why

$$\cos 45 = \frac{\sqrt{2}}{2}$$