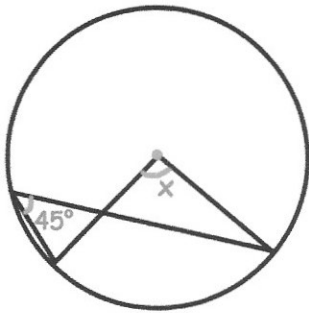




Work out  $\sqrt{30} \times \sqrt{6}$

$$\begin{aligned} & \sqrt{180} \\ & = \sqrt{36 \times 5} \\ & = 6\sqrt{5} \end{aligned}$$



Find  $x$

$$90^\circ$$

A box contains apples and oranges in the ratio 2:3.

8 apples and 7 oranges are added to the box and the ratio of apples to oranges is now 3:4

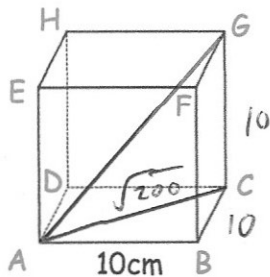
How many pieces of fruit were in the box to begin with?

$$4(2x + 8) = 3(3x + 7)$$

$$8x + 32 = 9x + 21$$

$$x = 11$$

$$55$$



Shown is a cube.  
Find the length of AG

$$10^2 + (\sqrt{200})^2 = AG^2$$

$$300 = AG^2$$

$$AG = 17.32 \text{ cm}$$

$y$  is directly proportional to  $x$  squared.

Sketch this graph.

