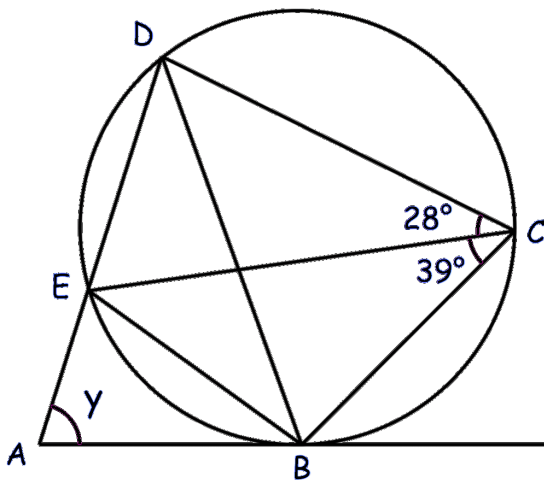




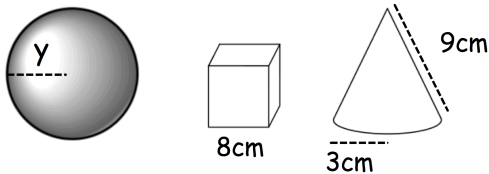
Factorise fully

$$3x^2 - 48$$

AB is a tangent to a circle.  
AED is a straight line.



Work out the size of angle y.



The surface area of the sphere is equal to the sum the surface areas of the cone and cube.

Find y.  
Give your answer to 1 decimal place.

Height (m)	Frequency
$0 < h \leq 2$	1
$2 < h \leq 4$	11
$4 < h \leq 6$	5
$6 < h \leq 8$	3

Two trees are selected at random.  
What is the probability they are both over two metres?