

16th January



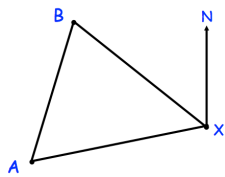
Corbettmaths

Evaluate

$$(125x^6)^{2/3}$$

A bag contains 14 sweets.
 8 sweets are red.
 4 sweets are yellow.
 2 sweets are green.
 Two sweets are taken from the bag without replacement.

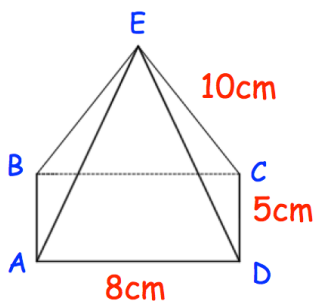
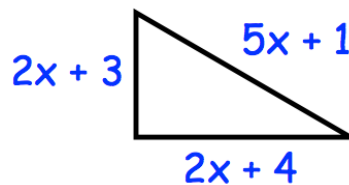
Work out the probability that the two sweets are different colours.



Calculate the bearing of A from B.

Ship A is 50km from X on a bearing of 258° .
 Ship B is 44km from X on a bearing of 312° .

Shown is a right angle triangle.
 Find the possible value(s) of x



Shown below is a rectangular based pyramid.
 The apex E is directly over the centre of the base.

Calculate angle between the face ABE and the base ABCD