



Simplify

$$(125x^6)^{\frac{2}{3}}$$

A bag contains 10 sweets.
 5 sweets are red.
 3 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.

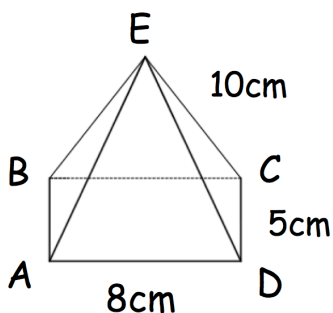
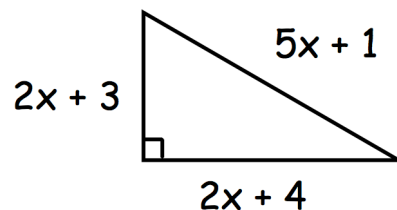
w is directly proportional to c squared

When $w = 16$, $c = 2$

Find the value of c when $w = 28c - 49$

Shown is a right angle triangle.

Find the value of x



Shown 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