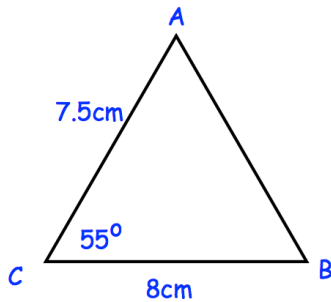




A bag contains red, white, green and pink sweets.  
 The ratio of red sweets to pink sweets is 3:4.  
 The ratio of white to green sweets is 2:9  
 The ratio of green to red sweets is 1:2

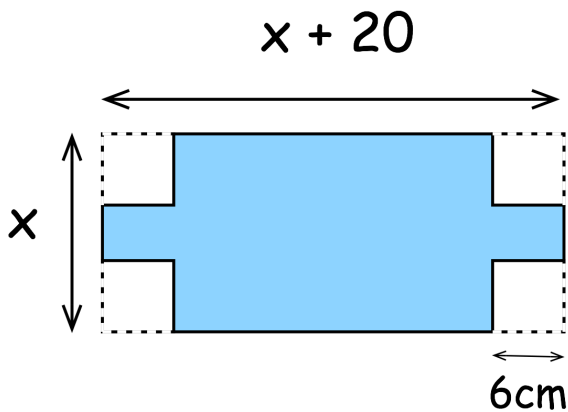
Work out the smallest possible number of sweets in the bag.



Calculate the length of AB.

A shape is made by removing four squares from a rectangle that is  $x + 20$  centimetres long and  $x$  centimetres wide.

Each square has a side length of 6cm



Find an expression for the area of the shaded shape.

Given the area of the shaded shape is  $1356\text{cm}^2$

Show that  $x^2 + 20x - 1500 = 0$

Find the value of  $x$