Name: _____ 5-a-day Higher

13th February

Corbettmaths

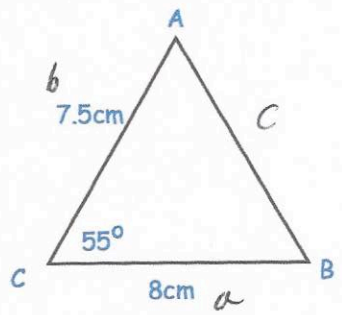
A bag contains red, white, green and pink sweets.
The ratio of red sweets to pink sweets is 3:4.
The ratio of white to green sweets is 2:9.
The ratio of green to red sweets is 1:2.

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

R W G P
3 4
2 9
2 1

R W G P
18 : 2 : 9 : 24

53



Calculate the length of AB.

$c^2 = a^2 + b^2 - 2bc\cos A$

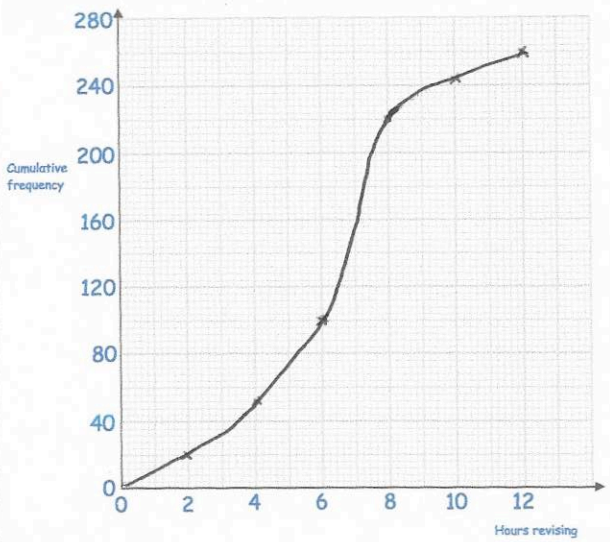
$c^2 = 7.5^2 + 8^2 - 2 \times 7.5 \times 8 \times \cos 55$

$c^2 = 51.4208..$

$c = 7.17cm$

Number of hours (h)	Frequency	cf
0<h≤2	20	20
2<h≤4	32	52
4<h≤6	48	100
6<h≤8	120	220
8<h≤10	24	244
10<h≤12	16	260

Draw a cumulative frequency diagram.



$\frac{5}{11}$ 0.4888888.... $\frac{6}{13}$

Arrange in order from smallest to largest

0.4545..
11) 5.0 0 0 0

0.4615..
13) 6.0 0 0 0 0

Smallest largest

$\frac{5}{11}$, $\frac{6}{13}$, $0.4\dot{8}$

© Corbettmaths 2016