



A bag contains red, yellow and blue beads.  
 The ratio of red beads to yellow beads is 2:3  
 The ratio of yellow beads to blue beads is 5:4

Work out what fraction of the beads are red.

$$R: Y: B$$

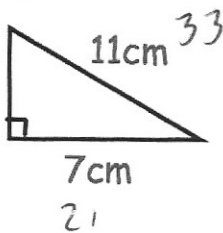
$$2: 3$$

$$5: 4$$

$$10: 15: 12$$

$$\frac{10}{37}$$

The triangle below is enlarged by scale factor 3.



$$a^2 + b^2 = c^2$$

$$21^2 + x^2 = 33^2$$

$$x = 25.455...$$

Find the area of the enlarged triangle.

$$\frac{1}{2} \times 21 \times 25.455...$$

$$267.29 \text{ cm}^2$$

Solve the simultaneous equations

$$2x - y = 7 \quad \times 5$$

$$3x + 5y = 4$$

$$10x - 5y = 35$$

$$3x + 5y = 4$$


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$$13x = 39$$

$$x = 3$$

$$6 - y = 7$$

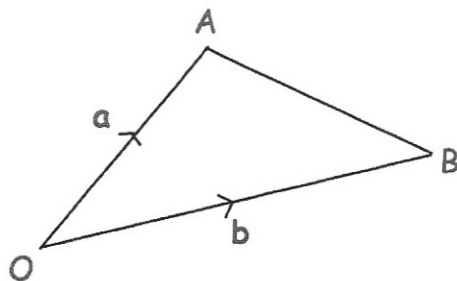
$$y = -1$$

$$x = 3 \text{ and } y = -1$$

Height, h, cm	Frequency	$fx$
$110 \leq h < 120$	3	345
$120 \leq h < 130$	8	1000
$130 \leq h < 140$	9	1215
$140 \leq h < 150$	23	3335
$150 \leq h < 160$	7	1085
	50	6980

Work out the estimated mean

$$6980 \div 50 = 139.6 \text{ cm}$$



Write the vector  $\overline{AB}$  in terms of  $\mathbf{a}$  and  $\mathbf{b}$

$$\underline{\underline{b - a}}$$