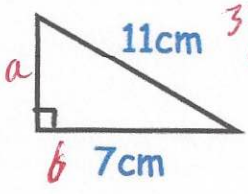
25th February

Corbettmaths

Define a "discrete variable"

A variable that can only take certain values.

The triangle below is enlarged by scale factor 3.



33cm
c
21cm

$a^2 + b^2 = c^2$
$a^2 + 21^2 = 33^2$
$a^2 = 33^2 - 21^2$
$a^2 = 648$
$a = 25.4558...$

Find the area of the enlarged triangle.

$A = \frac{1}{2} bh$
$= \frac{1}{2}(21) \times (25.4558...)$
$= 267.286 cm^2$

Solve the simultaneous equations

$2x - y = 7$ $\times 5$
$3x + 5y = 4$

$10x - 5y = 35$
$3x + 5y = 4$
$13x = 39$
$x = 3$

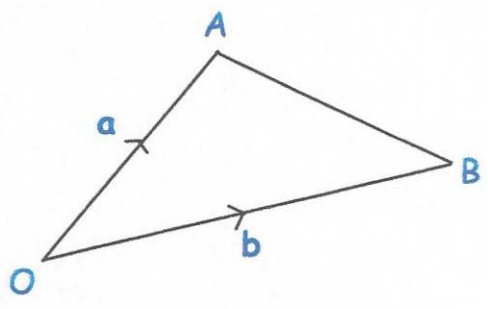
$6 - y = 7$
$y = -1$

$x = 3$ & $y = -1$

Height, h, cm	Frequency		fx
$110 \le h < 120$	115 × 3	=	345
$120 \le h < 130$	125 × 8	=	1000
$130 \le h < 140$	135 × 9	=	1215
$140 \le h < 150$	145 × 23	=	3335
$150 \le h < 160$	155 × 7	=	1085
	50		6980

Work out the estimated mean

$6980 \div 50 = 139.6$



Write the vector $\overrightarrow{AB}$ in terms of **a** and **b**

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

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

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