

24th September



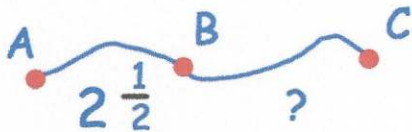
Corbettmaths

Solve

$$y^2 - 9y + 14 = 0$$

$$(y - 2)(y - 7) = 0$$

$$y = 2 \text{ or } y = 7$$



The distance from A to C is

$$3 \frac{2}{3} \text{ miles}$$

What is the distance from B to C?

$$3 \frac{2}{3} - 2 \frac{1}{2}$$

$$\frac{11}{3} - \frac{5}{2}$$

$$\frac{22}{6} - \frac{15}{6} = \frac{7}{6} \quad 1 \frac{1}{6} \text{ miles}$$

James weighed 100kg.
His target was to weigh 80kg or less.
His weight decreased by 3% each month.

Has he achieved his target after six months?

No

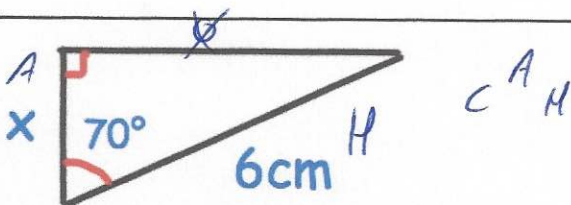
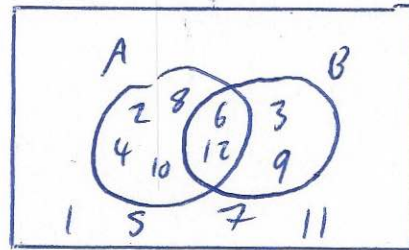
~~$$100 \times 0.97^6$$~~

$$100 \times 0.97^6$$

$$= 83.297 \text{ kg}$$

$\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$
 $A = \{\text{multiples of } 2\} \quad 2 \ 4 \ 6 \ 8 \ 10 \ 12$
 $B = \{\text{multiples of } 3\} \quad 3 \ 6 \ 9 \ 12$

Draw a Venn diagram for this information.



Find x

$$x = \cos(70) \times 6$$

$$= 2.052 \text{ cm}$$