15th August

Corbettmaths

The price (P, in £) of hiring a car is $P = 20d + 70$, where d is the number of days.

Rearrange the formula to make d the subject

$P - 70 = 20d$

$d = \frac{P - 70}{20}$

Use your formula to find how many days a car was hired for if the final price is £370

$d = \frac{370 - 70}{20}$

$= \frac{300}{20} = 15$ days

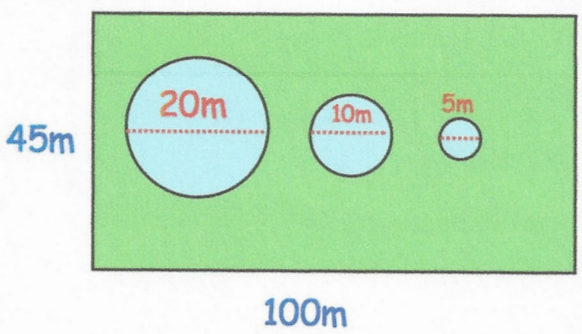
Expand

$(9 - 2x)(8 - x)$

$72 - 9x - 16x + 2x^2$

$72 - 25x + 2x^2$

$2x^2 - 25x + 72$



A rectangular lawn is 100m long and 45m wide.
There are 3 circular ponds, with radii 20m, 10m and 5m respectively.
Mrs Jones wants to cover the lawn with grass seed.
Each packet of grass seed covers $5m^2$ and costs £3.49

How much will it cost Mrs Jones to cover the lawn with grass seed?

$45 \times 100 = 4500 m^2$

$\pi \times 2.5^2 = 19.6349...$

$\pi \times 5^2 = 78.5398...$

$\pi \times 10^2 = 314.159...$

$412.333965...$

$4500 - 412.3339... = 4087.666...$

$4087.666 \div 5 = 817.5...$

818 packs $\times$ £3.49

£2854.82

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