

Solution

Pupils should recognise that the grass is two rectangles of width 32 m and length 15 m.

Therefore, the total area of grass is $(15 \text{ m} \times 32 \text{ m}) \times 2 = 960 \text{ m}^2$.

They may also recognise that there are four triangles of base 32 m and height 15 m.

So the total area of grass is $\frac{1}{2} \times (15 \text{ m} \times 32 \text{ m}) \times 4 = 960 \text{ m}^2$

Gareth feeds the grass twice a year, in spring and summer, so the total area to be fed is:

$$960 \text{ m}^2 \times 2 = 1920 \text{ m}^2$$

Grass feed is £19.99 for 400 m².

To find out how many bags are required:

$$1920 \text{ m}^2 \div 400 \text{ m}^2 = 4.8, \text{ so five bags are required.}$$

$$\text{Four bags for the price of three is: } 3 \times \text{£}19.99$$

$$\text{Plus one bag: } 1 \times \text{£}19.99$$

$$\text{Total cost is: } 4 \times \text{£}19.99 = \text{£}79.96 \text{ for five bags}$$



It will cost Gareth £79.96 for the grass feed he needs

