

$$(b) 127 \text{ m}^2 \div 12 = 10.583 \text{ litres}$$

∴ he will need to
buy 11 litres.
(10583 ml)

(c) 11 tins (10.583 × 1000)

(d) 1 litre = £7.75
3.5 litres = £22.50

1 Buying 1 litre tins

$$11 \times £7.75$$

$$= \underline{\underline{£85.25}}$$

2 Buying 3.5 litre tins

$$11 \div 3.5 = 3.14$$

∴ would need to buy
4 tins

$$4 \times £22.50$$

$$= \underline{\underline{£90}}$$

The minimum cost is therefore
£85.25 by buying 7 litre tins

(e) Perimeter = $6 + 6 + 10 + (10 - 1 - 2.5)$
 $= 6 + 6 + 10 + 6.5$
 $= \underline{\underline{28.5 \text{ m}}}$

(f) Area of mg = $\pi r^2 \div 2$ $D=1$
 $= \pi \times (0.5)^2 \div 2$ $r=0.5$