



## Perimeter and Area Exercise

Using the plans of the flat and lawn, work out the cost of buying a carpet for each room and for creating a circular fenced lawn area. Then show the total cost.



Please use the following prices:-

- ❖ Carpet for Living Room / Hall      £5.00 per square metre
- ❖ Carpet for Bedroom                    £6.00 per square metre
- ❖ Carpet for Bathroom / Kitchen      £8.00 per square metre
- ❖ Grass seed for lawn area              £1.50 per square metre
- ❖ Fencing for lawn area                 £3.00 per metre



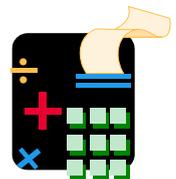
You'll also need to use the following formulae :-

$$\text{Circumference of circle} = 2 \times \pi \times r$$

$$\text{Area of circle} = \pi \times r^2$$

('d' means diameter, 'r' means radius and  $\pi$  is always 3.14)

Remember to show **ALL** your working out and units.



## Bathroom



Area = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

Cost = \_\_\_\_\_ x \_\_\_\_\_ = £

## Kitchen



Area = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

Cost = \_\_\_\_\_ x \_\_\_\_\_ = £

## Hall



Area = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

Cost = \_\_\_\_\_ x \_\_\_\_\_ = £

## Bedroom



Area = \_\_\_\_\_ x \_\_\_\_\_ + \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

Cost = \_\_\_\_\_ x \_\_\_\_\_ = £

## Living Room



Area = \_\_\_\_\_ x \_\_\_\_\_ + \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

Cost = \_\_\_\_\_ x \_\_\_\_\_ = £

## Grass area



Area = \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

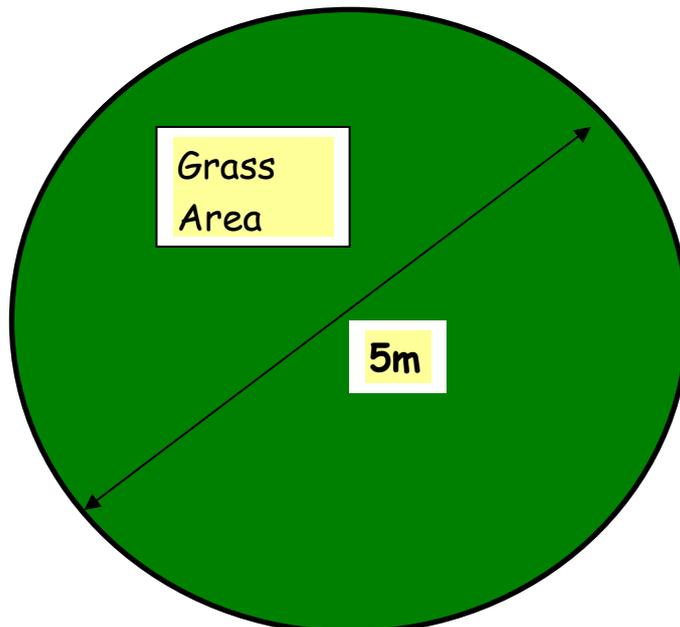
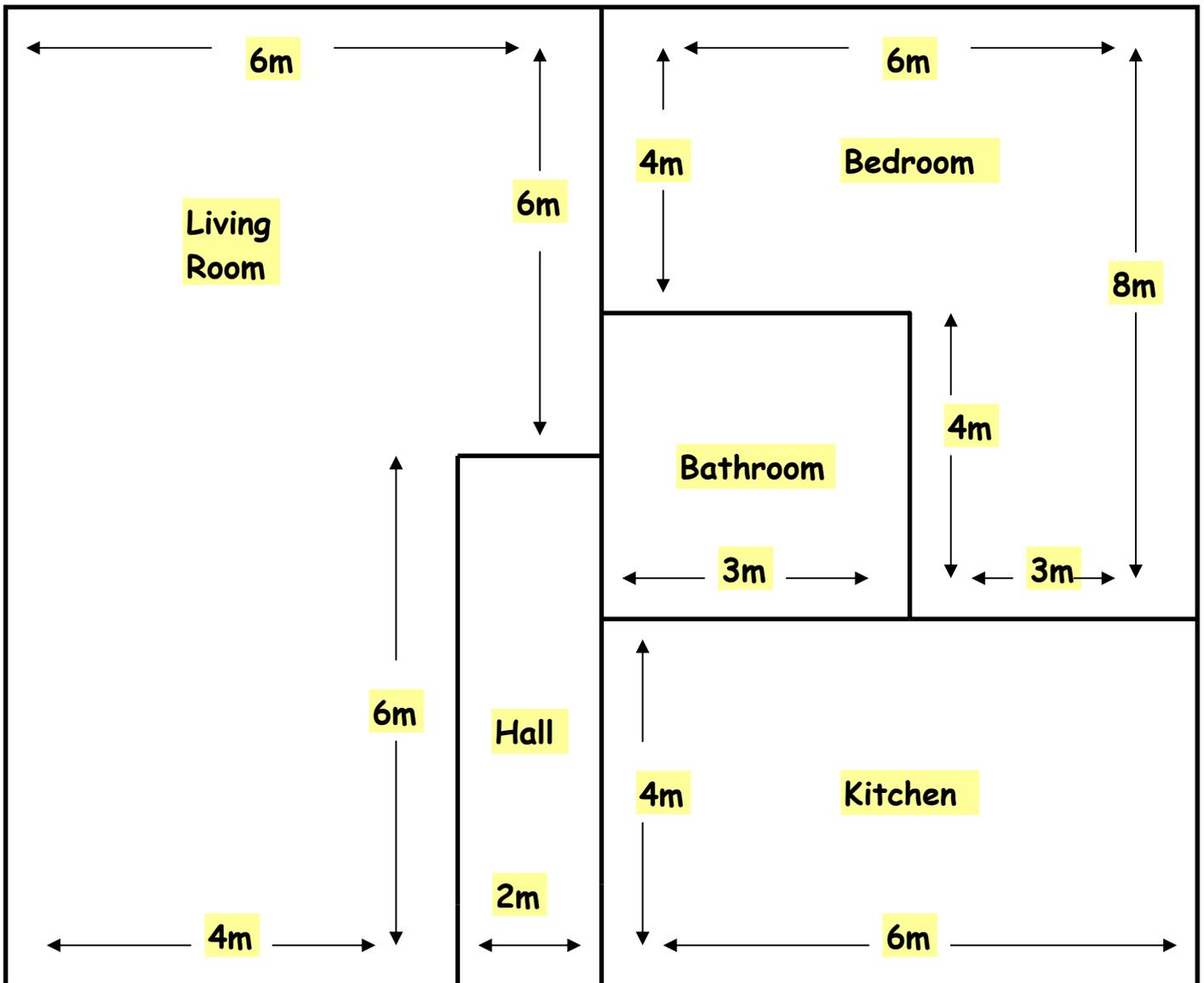
Cost of seed = \_\_\_\_\_ x \_\_\_\_\_ = £

Perimeter = \_\_\_\_\_ x \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

Cost of fence = \_\_\_\_\_ x \_\_\_\_\_ = £

**Total Cost** = £

# Plan of Flat



Kindly contributed by Chris Cook, Peterborough College of Adult Education