

New flat

Name: _____ Date: _____



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 fenced lawn area. Then show the total cost.

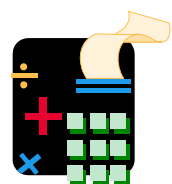


Please use the following prices:-

- ❖ 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



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



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Bathroom



Area = _____ x _____ = _____

Cost = _____ x _____ = £

Kitchen



Area = _____ x _____ = _____

Cost = _____ x _____ = £

Hall



Area = _____ x _____ = _____

Cost = _____ x _____ = £

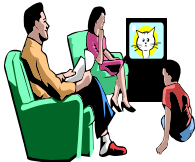
Bedroom



Area = _____ x _____ + _____ x _____ = _____

Cost = _____ x _____ = £

Living Room



Area = _____ x _____ + _____ x _____ = _____

Cost = _____ x _____ = £

Grass area



Area = _____ x _____ = _____

Cost of seed = _____ x _____ = £

Perimeter = (_____ + _____) x 2 = _____

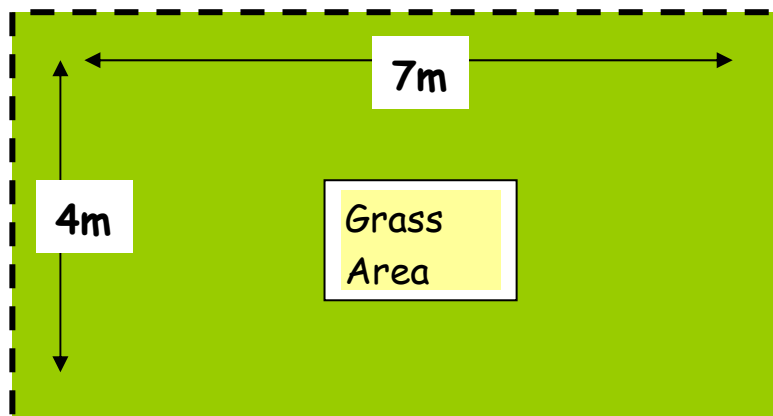
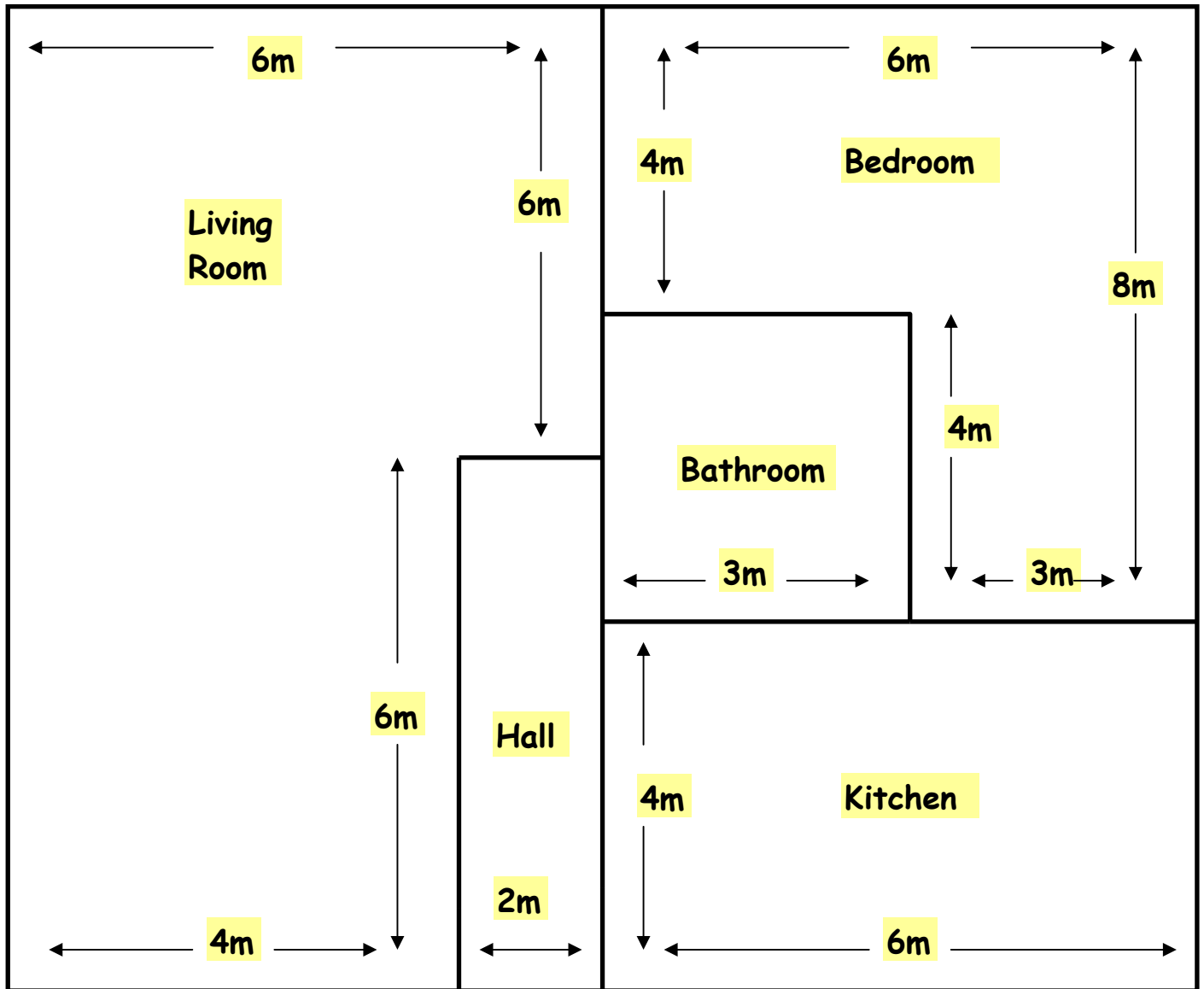
Cost of fence = _____ x _____ = £

Total Cost = £

New flat

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Plan of Flat



New flat



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Note:

Page 2 is a scaffolded worksheet for less confident learners and can be omitted for a less structured approach such as a Functional Maths practice task.

Adult Numeracy

MSS1/L1.8 Work out the perimeter of simple shapes, e.g. rectangle, equilateral triangle

- (a) know that perimeter is the boundary of a shape
- (b) know that perimeter is measured in units of length
- (c) understand that measurements required to calculate the length of the perimeter depend on the shape

MSS1/L1.9 Work out the area of rectangles

- (a) know that area is a measure of surface
- (b) know what measurements are required to calculate area, and how to obtain them
- (c) know that measurements must be in the same units before calculating area
- (d) know that the area of a rectangle = length x width
- (e) know that area is measured in square units

HD1/L1.1 Extract and interpret information (e.g. in tables, diagrams, charts and simple line graphs)

- (a) understand that the title, labels, key, etc. provide information
- (b) know how to read the scale on an axis
- (c) know how to use a simple scale such as 1 cm to 1 m
- (d) know how to obtain information from a pictogram, pie chart, bar chart, and single-line graph, including use of decimal numbers

<http://www.excellencegateway.org.uk/page.aspx?o=sflcurriculum>

Functional Maths

Ideal for underpinning the following Coverage and Range statements.

Level 1

- Solve problems requiring calculation, with common measures, including money, time, length, weight, capacity and temperature
- Work out areas and perimeters in practical situations
- Extract and interpret information from tables, diagrams, charts and graphs

<http://www.ofqual.gov.uk/qualification-and-assessment-framework/89-articles/238-functional-skills-criteria>