

Perimeter

You will need a copy of the floor plan to answer the questions.

1) You are going to put a wallpaper border all around the top of the lounge wall

- a) How much do you need?
- b) The border comes in 2m rolls how many do you need?
- c) The rolls cost £2.99 how much will it cost?



2) You plan to put a picture rail all around the study wall.

- a) How much rail do you need to buy?
- b) The rail comes in 2.5m lengths how many do you need to buy to have enough for the job?
- c) The lengths cost £8.99 each how much will it cost to finish the job?

3) You need to replace the skirting board in the kitchen (excluding doorways)

- a) How much do you need?
- b) The skirting comes in 3m lengths how many do you need to complete the job?
- c) The lengths cost £6.50 each. How much will it cost?

4) You decide to add a small fence round the outside of the patio area.

- a) How much fencing do you need?
- b) The fence comes in 1.5m lengths. How much do you need?
- c) The fence costs £3.99 per length. How much will it cost?

Area

Exterior patio slabs 50cm x 50cm £1.99 each

Fawn 80/20 wool/nylon carpet £12.99 m²

Quarry tiles 50cm x 50cm £2.50 each

You will need a copy of the floor plan to answer the questions.

1) You have decided to carpet the dining room with the fawn wool/nylon carpet.

a) How many m² do you need?

b) How much will it cost?

2) You need to replace the patio with some new slabs.

a) How many do you need?

b) How much will it cost?

3) You have decided to update your kitchen and replace the floor with new quarry tiles.

a) How many tiles do you need?

b) How much will it cost?

4) You want to re- carpet the study.

a) How much do you need?

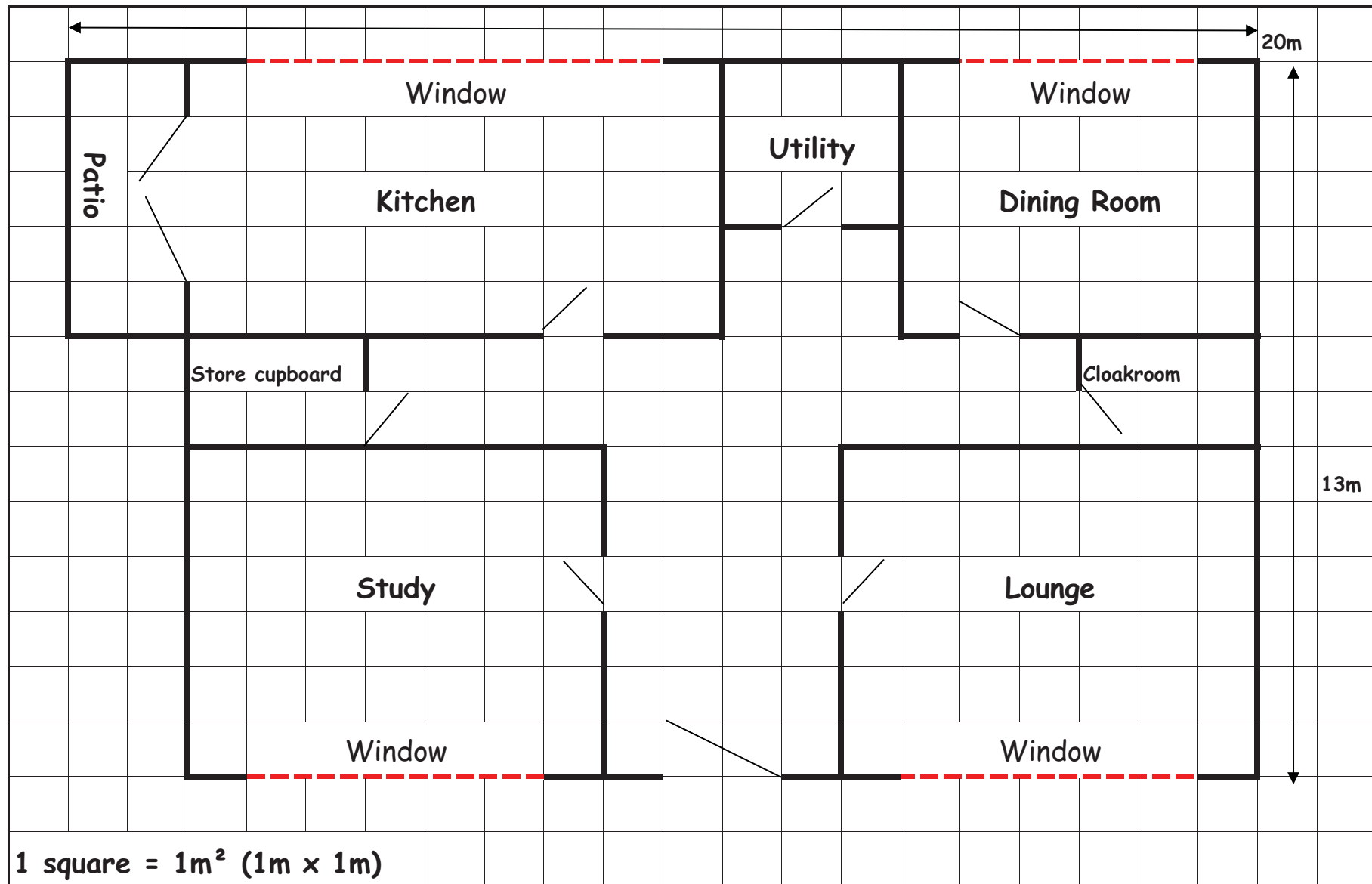
b) How much will it cost?



5) You plan to lay quarry tiles in the utility room.

a) How many do you need?

b) How much will it cost?



Area - Answers

- 1) a) 30m^2 b) £389.70 ($\text{£}12.99 \times 30$)
- 2) a) 40 b) £79.60 ($\text{£}1.99 \times 40$)
- 3) a) 180 b) £450 ($\text{£}2.50 \times 180$)
- 4) a) 42m^2 b) £545.58 ($\text{£}12.99 \times 42$)
- 5) a) 36 b) £90 ($\text{£}2.50 \times 36$)

Perimeter - Answers

- 1) a) 26m b) 13 rolls c) £38.87 ($\text{£}2.99 \times 13$)
- 2) a) 26m b) 11 lengths c) £98.89 ($\text{£}8.99 \times 11$)
- 3) a) 24m b) 8 lengths c) £52.00 ($\text{£}6.50 \times 8$)
- 4) a) 9m b) 6 lengths c) £23.94 ($\text{£}2.99 \times 6$)

Author's notes and Level 2 extension ideas

I have found that this is a nice easy introduction to perimeter and area using the counting squares method.

I would suggest laminating the floor layout page.

Suggestions for tutors wanting to use at L2 and writing their own questions include:

Knocking through two rooms for composite shapes and then working out tile/carpet requirements.