## WALT:

To calculate the cost of building a room on a house.
WILF:

- The problem is broken down into organised sections;
- Each section includes an explanation of what you are doing;
- Each section shows what maths you are using (eg formulae);
- Each part of the answer is clearly laid out;
- Each answer includes the necessary units;
- There is a final sentence that makes the answer clear.


## The Question

From the information given, calculate the cost of:

- building the room using bricks and concrete;
- carpeting the room.


## The Information

A plan of the cellar is given on an attached sheet. This also includes the dimensions of a brick.

Entrance to the cellar is gained by walking down some stairs. There are no external doors or windows.

The cost each brick is $£ 0.17$. A pallet contains 1000 bricks. You can purchase a pallet of bricks at a $7.5 \%$ discount to purchasing the individual bricks.

The walls must be 8 feet high.
The ratio of sand to cement in the concrete that you use to glue the bricks together is $7: 2$. Altogether, you need 370 kg of concrete. Cement comes in 20 kg bags, each costing $£ 8.75$. Sand comes in 10 kg bags, each costing $£ 3.10$.

The cost of the carpet is $£ 27.95$ per square metre. The cost of fitting the carpet is $£ 160$. There are reductions available depending on the cost of the carpet.



Plan of the Room.

## Discount Rate



