Unit 107: Working with brick, block and stone

# Worksheet 26: Waste percentages (tutor)

When calculating quantities of materials, it is necessary to **add an amount for waste**. A number of factors can affect the amount of waste generated.

1. List **three** things that can cause waste to be generated.

|  |  |
| --- | --- |
| 1 | Manufacturing faults |
| 2 | Poor handling |
| 3 | Poor storage  [or any other appropriate reason] |

1. Complete the following calculations.
2. Calculate the number of bricks needed to build a half-brick thick wall that is 2240mm long and 675mm high (show your workings).

2240mm = 2.24m; 675mm = 0.675m

2.24 × 0.675 = 1.512m². 1.51 × 60 = 90.6.

Round up to 91 bricks.

1. Calculate an additional 5% for wastage.

4.55. Round up to 5 bricks.

1. Calculate the number of bricks needed to build a half-brick thick wall 3365mm long and 1125mm high (show your workings).

3365mm = 3.36m; 1125mm = 1.12m

3.36 × 1.12 = 3.763m². 3.76 × 60 = 225.6.

Round up to 226 bricks**.**

1. Calculate an additional 5% for wastage.

11.3. Round down to 11 bricks.