

Fractions, decimals and percentages – GCSE Mathematics**1. No.9**

In a house

the floor area of the living room is 26 m^2 the floor area of the kitchen is 16.4 m^2

Express the area of the living room as a fraction of the area of the kitchen.

Give your answer in its simplest form.

[3 marks]

Answer

2. No.21

Prove algebraically that $1.\dot{0}\dot{1}\dot{8} = \frac{56}{55}$

[3 marks]

3. No.2

The mass of an iceberg is 2 200 000 kg

This value is a 12% reduction from the **original** mass of the iceberg.

Work out the **original** mass of the iceberg.

Give your answer in standard form.

[3 marks]

Answer _____ kg

4. No.6

Work out $(2.5 \times 10^4)^{-3}$

Give your answer in standard form.

[1 mark]

Answer _____

5. No.10

A bus route had 90 000 passengers last year.

The number of passengers was predicted to increase
by 3% this year
and then
by 8% next year.

Is the predicted number of passengers for **next** year more than 100 000 ?

You **must** show your working.

[3 marks]
