The skills in this series of exercises appear frequently.

These are the GIFTS you must take to succeed.

Geometry and Measure Unit

Exercise 6

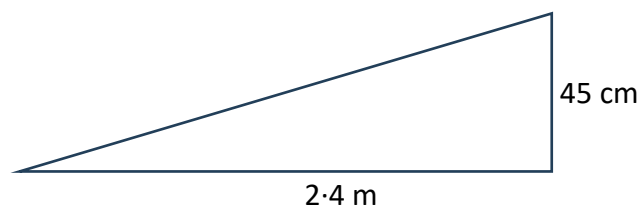**Gradient** **(Non-Calculator)**

Calculate the gradient of each, writing your answer as a fraction in its simplest form:

Q	Horizontal Distance	Vertical Height
1	55 m	30 m
2	1200 mm	50 mm
3	99 cm	44 cm
4	940 cm	180 cm
5	2.4 m	740 cm
6	68 cm	140 mm
7	3 m	18 cm
8	1.2km	3880 m
9	5.6 m	820 cm
10	4.9 cm	98 mm

Applying Question

A new ramp is required for an outbuilding in the school grounds.

The height of the ramp is 45 centimetres.

45 cm

2·4 m

To be suitable, the ramp must have a gradient of 0·17 ± 10%

Determine whether the ramp is suitable.