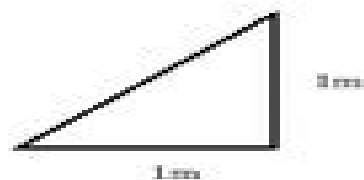


Gradient of a Straight Line - Notes

The **gradient m** of a straight line is a measure of its **steepness**.

In order to be able to **compare** gradients, it is most helpful to talk about **vertical change per 'unit' of horizontal change**.

This is where the formula $m = \frac{\text{vertical change}}{\text{horizontal change}}$ comes from.

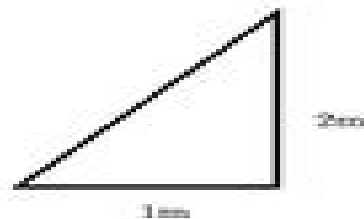


$$m = \frac{\text{vertical change}}{\text{horizontal change}}$$

$$m = \frac{1}{1}$$

$$m = 1$$

The straight line goes **up** 1m for every 1m across.

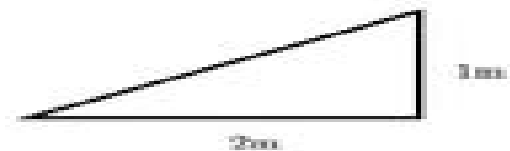


$$m = \frac{\text{vertical change}}{\text{horizontal change}}$$

$$m = \frac{2}{1}$$

$$m = 2$$

The straight line goes **up** 2m for every 1m across.

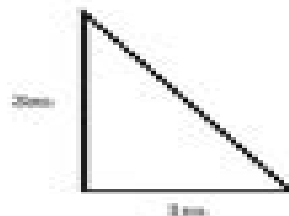


$$m = \frac{\text{vertical change}}{\text{horizontal change}}$$

$$m = \frac{1}{2}$$

The straight line goes **up** $\frac{1}{2}$ m for every 1m across.

Negative gradients indicate that the line goes 'down' instead of 'up'.

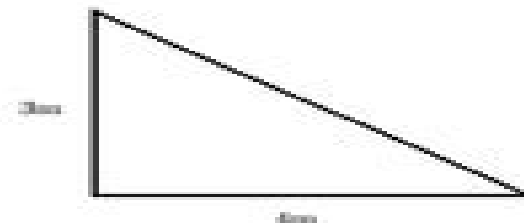


$$m = \frac{\text{vertical change}}{\text{horizontal change}}$$

$$m = -\frac{3}{1}$$

$$m = -3$$

(down 3m for every 1m across)



$$m = \frac{\text{vertical change}}{\text{horizontal change}}$$

$$m = -\frac{3}{4}$$

Fractional gradients do happen!
Just simplify them when possible.

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National 5 Maths Craig Lowther, Judith Walker, Robin Christie, Brenda Harden, Andrew Thompson, John Ward, Stuart Welsh, Leckie, 2018-06-13 Exam Board SQA Level National 5 Subject Maths First Teaching 2017 First Exam 2018 The National 5 Maths Student Book helps map your route through the CfE programme and provides comprehensive and authoritative guidance for the whole course Full coverage of National 5 course specifications with list of learning intentions Attractive layout with clear text features Key questions highlight crucial concepts and techniques that need to be grasped by students in order to progress to the next learning intention What the examiner assessor is looking for to help teachers Numeracy chapters online probability chapters to ensure N5 students meet numeracy standards A list of class activity ideas PDF format

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