

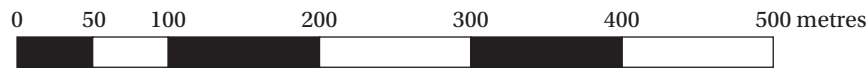
Zoom In Maths Literacy Grade 11

Scale

1. Identify the following types of scales:

1.1 1 : 150 (1)

1.2



(1)

[2]

2. Explain the meaning of a scale of 1 : 150. [3]

3. Use the scale of 1 : 150 to determine the real lengths of the following measurements on a house plan and give the answers in metres.

3.1 15 mm (4)

3.2 12 cm (4)

3.3 105,5 mm (4)

[12]

4. You measure the length of a bar scale and find that it is 5,5 cm from 0 to the 500-metre mark. Use this information to determine the real-life lengths of the following measurements on a golf course layout plan. Round your answers to one decimal place.

4.1 8 cm (3)

4.2 116 mm (4)

4.3 25,5 mm (4)

[11]

5. Use the following number scales from different plans to determine the real-life lengths of a measurement of 12,8 mm on the different plans.

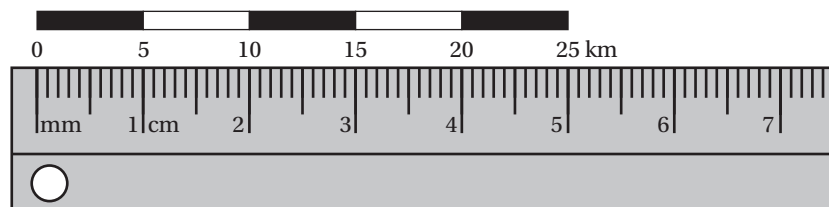
5.1 1 : 100 (answer in m) (4)

5.2 1 : 120 (answer in cm) (4)

5.3 1 : 10 000 (answer in km) (4)

[12]

6. Determine the real distance of a measurement of 12,5 cm on a map by using the following bar scale and ruler.



[5]

7. You want to enlarge a small picture, measuring 6 cm by 4 cm, so that it is big enough to be painted onto a wall that is 4,2 m by 2,8 m. Determine the scale needed to enlarge the picture appropriately. [6]

8. The length of a swimming pool is indicated as 6 m on a house plan. The actual measurement on the plan is 7,5 cm. Determine the scale used to draw the plan. [5]

9. Explain whether an architect may use a photocopy machine to enlarge or shrink a house plan with a bar scale. [4]

Worksheet total: 60 marks