

## Worksheet 1 Length and distance: units and conversion

1. Give the appropriate unit of length or distance to use in the following examples:

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| 1.1 The length of a pen                              | 1.2 The height of a door                     |
| 1.3 Width of a Nano SIM card                         | 1.4 The thickness of your cellphone          |
| 1.5 The length of a golf course                      | 1.6 The width of a car tyre                  |
| 1.7 The length of a cricket bat                      | 1.8 The height from the floor to the ceiling |
| 1.9 The length of a plot of land                     | 1.10 The length of a netball post            |
| 1.11 The height of the Eiffel Tower                  | 1.12 The distance around the Vatican City    |
| 1.13 The width of a vegetable garden                 |  |
| 1.14 The distance between your school and your house |  |
| 1.15 The distance from the moon to the sun           |  |
| 1.16 The distance travelled by a car in a lifetime   |  |
| 1.17 The distance from Bloemfontein to Kroonstad     |  |
| 1.18 The width of an eraser                          |  |
| 1.19 The width of Wanderers Cricket Stadium          |  |
| 1.20 The width of your cellphone charger             |  |

[20 × 1 = 20]

2. Convert the following lengths to the unit given in brackets:

- 2.1 The length of a key is 4,5 cm. (mm)  
2.2 The width of a CD cover is 0,120 m. (cm)  
2.3 The distance between the two ends of a shopping mall is 450 m. (km)  
2.4 The height of rugby goal posts is 7 500 mm. (m)  
2.5 The length of a train carriage is 10,5 m. (mm)

[5 × 2 = 10]

3. Calculate the following and give the answer in the units requested:

- 3.1 The combined length of a truck and trailer in metres if the truck has a length of 850 cm and the trailer has a length of 15 000 mm (3)  
3.2 The width of the netball court area in millimetres if there are four courts next to each other, measuring 720 cm each and separated by 3,5 m-wide paths (4)  
3.3 The total distance travelled in kilometres if you drove from the V&A Waterfront to Worcester (120 000 m) and back, three times this week (3)  
3.4 The length of a vineyard row in metres if one grape vine needs 2 000 mm to grow and the farmer plants 15 vines in one row (3)  
3.5 The number of floors in a flat roof multi-storey house with a total height of 1 500 cm and each floor 3 000 mm high (4)  
3.6 How many turns a wheel must make to travel 15 km if it covers 150 cm in one turn (4)  
3.7 How many metres of ribbon will be needed to decorate 15 cakes if 400 mm of ribbon is used for one cake (3)  
3.8 The total distance in centimetres that a tortoise moved if he first moved 62 cm, then 131 mm and then 0,41 m (3)  
3.9 The number of 35 cm tiles that will fit one above the other from the floor to the ceiling of a bathroom that is 2,625 m high (4)

[31]

4. Arrange the heights of these four Grade 10 learners from the shortest to the tallest:

1 578 mm; 158 cm; 1,569 m; 0,001582 km

[4]

Worksheet total: 65 marks