

Unit Conversion Practice

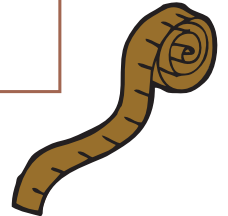


Metric Units of Length

$$1 \text{ cm} = 10 \text{ mm}$$

$$1 \text{ m} = 100 \text{ cm}$$

$$1 \text{ km} = 1,000 \text{ m}$$



The table to the right shows the relationships between common metric units of length. Use the information in the table to help you solve the problems in parts 1 and 2 below.

Part 1. Convert the following measurements.

1. $60 \text{ cm} = \underline{600} \text{ mm}$

2. $5.2 \text{ km} = \underline{5,200} \text{ m}$

3. $42 \text{ m} = \underline{4,200} \text{ cm}$

4. $2,800 \text{ m} = \underline{2.8} \text{ km}$

5. $800 \text{ cm} = \underline{8} \text{ m}$

6. $9,500 \text{ cm} = \underline{95} \text{ m}$

7. $16 \text{ km} = \underline{16,000} \text{ m}$

8. $830 \text{ mm} = \underline{83} \text{ cm}$

9. $3.6 \text{ m} = \underline{360} \text{ cm}$

10. $21 \text{ mm} = \underline{2.1} \text{ cm}$

11. $16.5 \text{ km} = \underline{16,500} \text{ m}$

12. $188 \text{ cm} = \underline{1.88} \text{ m}$

13. $8,920 \text{ m} = \underline{8.92} \text{ km}$

14. $35.8 \text{ cm} = \underline{358} \text{ mm}$

Part 2. Compare the following measurements using $>$, $<$, or $=$.

1. $9,900 \text{ cm} \quad (=) \quad 99 \text{ m}$

2. $4,000 \text{ mm} \quad (>) \quad 40 \text{ cm}$

3. $4,110 \text{ m} \quad (<) \quad 41 \text{ km}$

4. $2.4 \text{ km} \quad (=) \quad 2,400 \text{ m}$

5. $3.51 \text{ m} \quad (>) \quad 35.1 \text{ cm}$

6. $34.3 \text{ cm} \quad (<) \quad 3,430 \text{ mm}$

7. $2,341 \text{ m} \quad (<) \quad 2.4 \text{ km}$

8. $72 \text{ km} \quad (=) \quad 72,000 \text{ m}$

9. $685 \text{ m} \quad (=) \quad 68,500 \text{ cm}$

10. $12,300 \text{ cm} \quad (>) \quad 12.3 \text{ m}$