

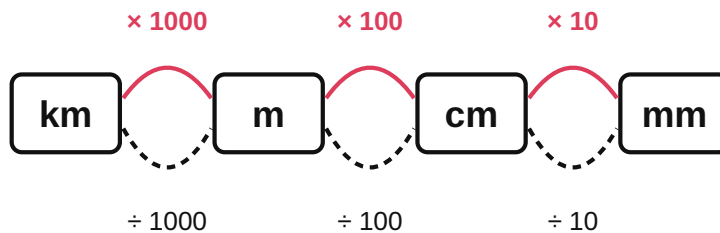
Boost Free Lessons - Year 5 Maths

Lesson 16: Converting Units of Length

Name: _____ Grade: _____ Date: _____

Worked Example 1

Convert 3.5 m into centimetres.



1. Use the ladder to see which way you are going and by how much.
2. Going from metres to centimetres is one step **down**, so you multiply.
3. There are 100 cm in 1 m, so multiply by 100.
4. $3.5 \times 100 = 350$.

3.5 m = 350 cm

Worked Example 2

Convert 4 200 mm into metres.

1. Millimetres to metres is two steps **up**, so you divide.
2. Divide by 10 to get centimetres: $4\ 200 \div 10 = 420$ cm.
3. Then divide by 100 to get metres: $420 \div 100 = 4.2$ m.
4. You could also divide by 1000 in one step, since $10 \times 100 = 1000$.

4 200 mm = 4.2 m

Remember: Going **down** the ladder (km to m to cm to mm) means **multiply**. Going **up** means divide. 1 km = 1000 m, 1 m = 100 cm, 1 cm = 10 mm.



Question 1: Convert the following.

1. 5 m into cm

2. 2.4 m into cm

3. 300 cm into m

4. 750 cm into m

5. 8 cm into mm

6. 45 mm into cm

7. 3 km into m

8. 2 500 m into km



Question 2: Answer the following.

1. Convert 6.25 m into centimetres.
2. Convert 1 800 mm into metres.
3. Convert 0.4 km into metres.
4. Convert 95 mm into centimetres.
5. Which is longer: 1.2 m or 125 cm?
6. Add 1.5 m and 60 cm, giving your answer in metres.





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Answers: Converting Units of Length**Question 1**

1. 500 cm
2. 240 cm
3. 3 m
4. 7.5 m
5. 80 mm
6. 4.5 cm
7. 3 000 m
8. 2.5 km

Question 2

1. 625 cm
2. 1.8 m
3. 400 m
4. 9.5 cm
5. 125 cm
6. 2.1 m

Question 3

1. 250 cm
2. 17.5 cm
3. 2 km
4. Yes. Three books measure 135 cm and the shelf is 120 cm, so no, they will not fit.
5. 3.4 m

