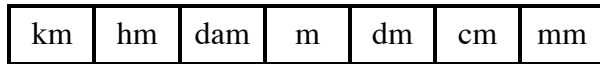



Converting Metric Units

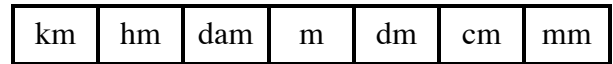
The basic unit of length in the metric system is the meter (m).
The length of a baseball bat is about 1 m.




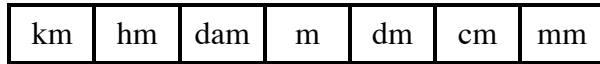
To convert units, use the chart to determine how many places to move the decimal point. Each “hop” represents moving the decimal point one place. Also, determine the direction to move the decimal point. If you “hop” to the right, move the decimal point to the right, but if you “hop” to the left, move the decimal point to the left.




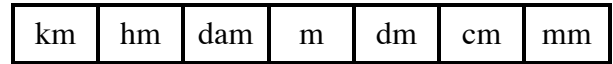

 hm to m
 $1 \text{ hm} = 100 \text{ m}$





 mm to m
 $1 \text{ mm} = 0.001 \text{ m}$




 km to m
 $9 \text{ km} = 9000 \text{ m}$




 cm to m
 $5 \text{ cm} = 0.05 \text{ m}$

Complete:

- | | | |
|-----------------------|----------------------|----------------------|
| 1. 25 hm = _____ m | 2. 8 mm = _____ m | 3. 1 km = _____ m |
| 4. 1 cm = _____ m | 5. 4 m = _____ dm | 6. 17 dam = _____ m |
| 7. 300 m = _____ dm | 8. 2000 m = _____ km | 9. 4000 cm = _____ m |
| 10. 6000 mm = _____ m | 11. 5 km = _____ m | 12. 250 m = _____ km |
| 13. 4 cm = _____ m | 14. 8 m = _____ mm | 15. 47 km = _____ m |
| 16. 687 mm = _____ m | 17. 9 mm = _____ m | 18. 8 m = _____ km |