Metric Units of Length

Convert decimeters to centimeters.

60 dm = _______ cm
When you convert from larger units to smaller units, the number of units increases. So, multiply by the number of centimeters in a decimeter.

\[
60 \times 10 = 600
\]

\begin{align*}
\text{number of decimeters} & \quad \text{centimeters in a decimeter} \\
\text{centimeters in 60 decimeters} & \\
\end{align*}

Solution: 60 dm = 600 cm

Convert centimeters to decimeters.

3,000 cm = _______ dm
When you convert from smaller units to larger units, the number of units decreases. So, divide by the number of centimeters in a decimeter.

\[
3,000 \div 10 = 300
\]

\begin{align*}
\text{number of centimeters} & \quad \text{centimeters in a decimeter} \\
\text{decimeters in 3,000 centimeters} & \\
\end{align*}

Solution: 3,000 cm = 300 dm

Use the table below to find the missing number.

1. 80 cm = _______ dm
2. 700 dm = _______ m
3. 9 km = _______ m

4. _______ m = 40 dm
5. _______ km = 7,000 m
6. _______ m = 500 cm

Metric Units of Length

1 centimeter (cm) = 10 millimeters (mm)
1 decimeter (dm) = 10 centimeters
1 meter (m) = 10 decimeters
1 kilometer (km) = 1,000 meters

Writing Math  Cody plans to run in a 200-m race at a track meet. He wants to know how many decimeters he will run. Tell him how to find the answer.