Unit 5 : Length

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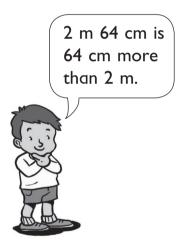
Friendly Notes

Meters and Centimeters

The meter (m) and centimeter (cm) are units of length.

1 m = 100 cm

1. Write 2 m 64 cm in cm.



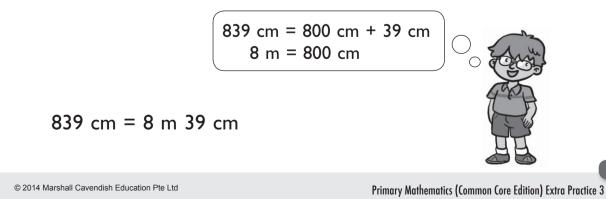
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 $2 \text{ m} = 2 \times 100 \text{ cm}$ = 200 cm 2 m 64 cm = 200 cm + 64 cm



2 m 64 cm = 264 cm

2. Write 839 cm in m and cm.



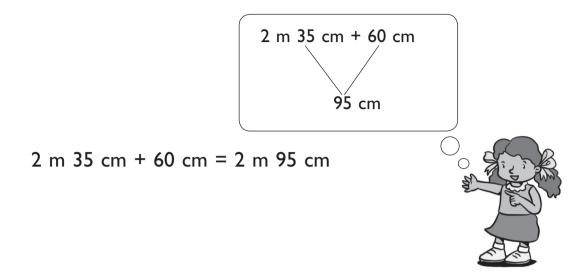
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3. Find the sum of 2 m 35 cm and 60 cm.

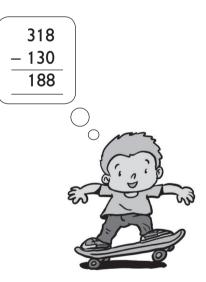


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4. Find the difference between 3 m 18 cm and 1 m 30 cm.

3 m 18 cm = 318 cm 1 m 30 cm = 130 cm

318 cm - 130 cm = 188 cm = 1 m 88 cm



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Kilometers

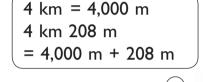
The kilometer (km) is another unit of length.

We use the kilometer to measure long distances such as the length of a road or the distance we travel from one place to another.

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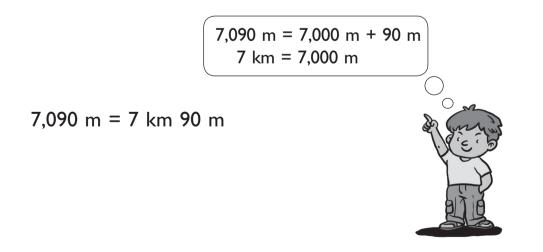
1 km = 1,000 m

1. Write 4 km 208 m in m.



4 km 208 m = 4,208 m

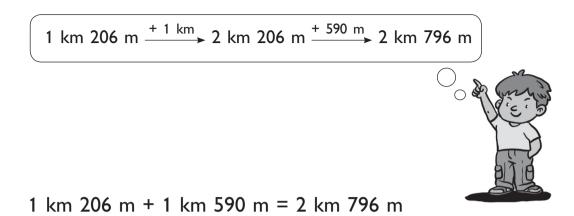
2. Write 7,090 m in km and m.



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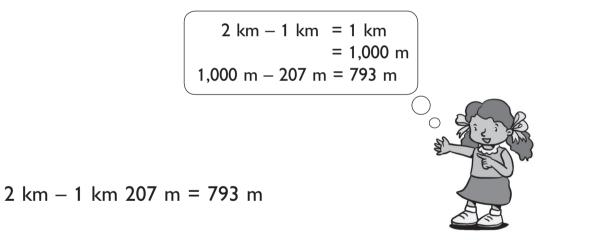
3. Find the sum of 1 km 206 m and 1 km 590 m.



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4. Find the difference between 2 km and 1 km 207 m.

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Yards, Feet, and Inches

The yard (yd), foot (ft), and inch (in.) are other units of length.

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1 yd is shorter than a meter.

1 yd = 3 ft 1 ft = 12 in.

1. Write 12 yd in feet.

12 yd = 36 ft

$$1 \text{ yd} = 3 \text{ ft}$$

$$12 \text{ yd} = 12 \times 3 \text{ ft}$$

$$= 36 \text{ ft}$$

2. Write 15 yd 4 ft in feet.

1 yd = 3 ft $15 \text{ yd} = 15 \times 3 \text{ ft}$ = 45 ft 15 yd 4 ft = 49 ft15 yd 4 ft = 49 ft
Write 134 ft in yards. 134 ft 132 ft 2 ft 44 yd

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134 ft = 44 yd 2 ft

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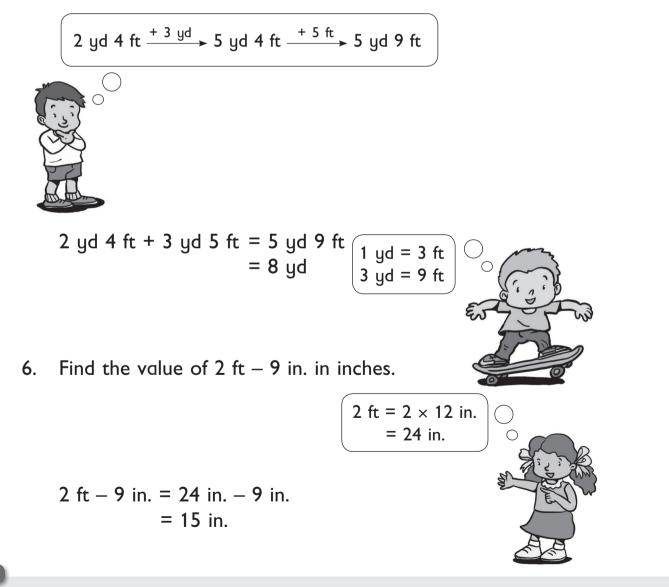
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4. Write 2 ft 8 in. in inches.

 $\begin{array}{c}
1 \text{ ft} = 12 \text{ in.} \\
2 \text{ ft} = 2 \times 12 \text{ in.} \\
2 \text{ ft} 8 \text{ in.} = 24 + 8 \text{ in.} \\
= 32 \text{ in.} \\
\end{array}$ 2 ft 8 in. = 32 in.

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5. Find the value of 2 yd 4 ft + 3 yd 5 ft in yards.



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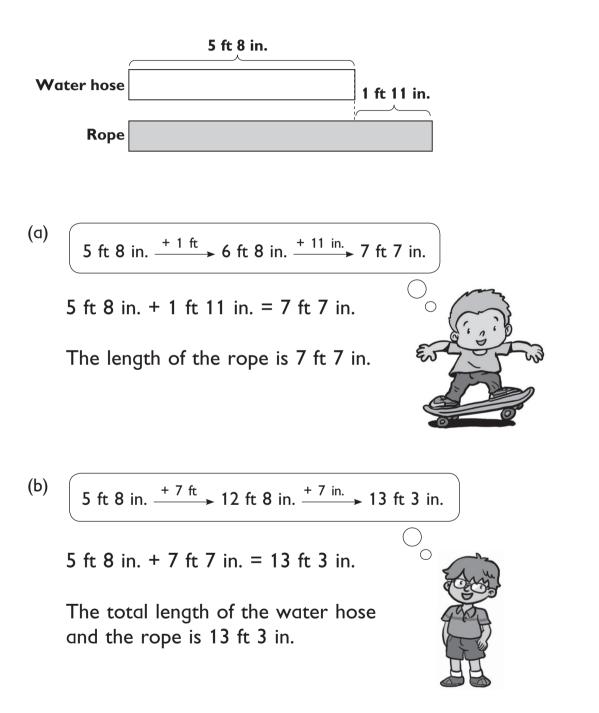
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- 7. A water hose is 5 ft 8 in. long.A rope is 1 ft 11 in. longer than the water hose.

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- (a) Find the length of the rope.
- (b) Find the total length of the water hose and the rope.



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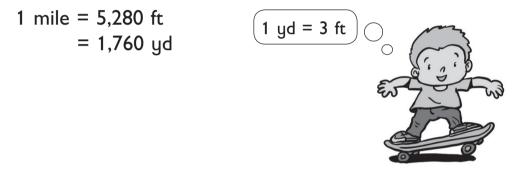
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Miles

The mile (mi) is another unit of length. One mile is longer than 1 km. We measure long distances in miles.

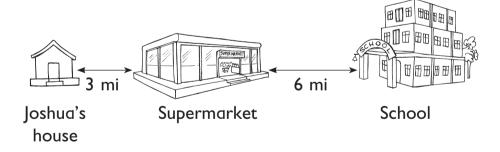
1 mile = 5,280 ft

1. Write 1 mile in yd.



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2. Find the distance between Joshua's house and the school.



The distance between Joshua's house and the school is 9 mi.

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