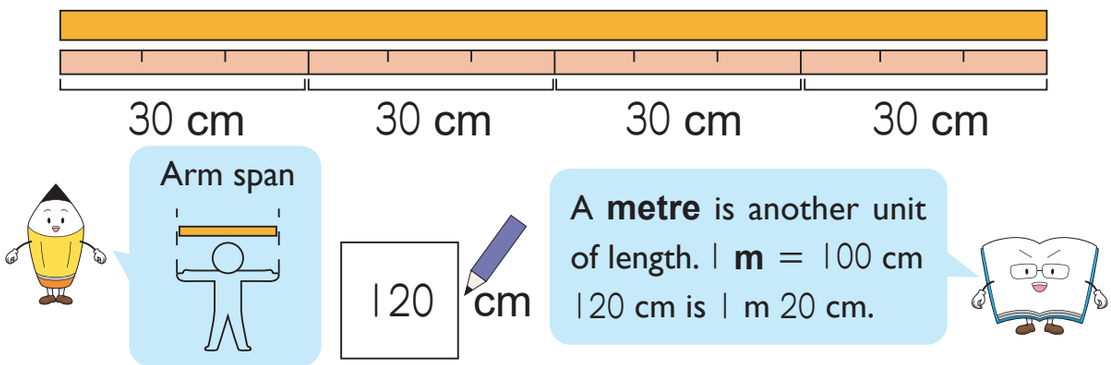
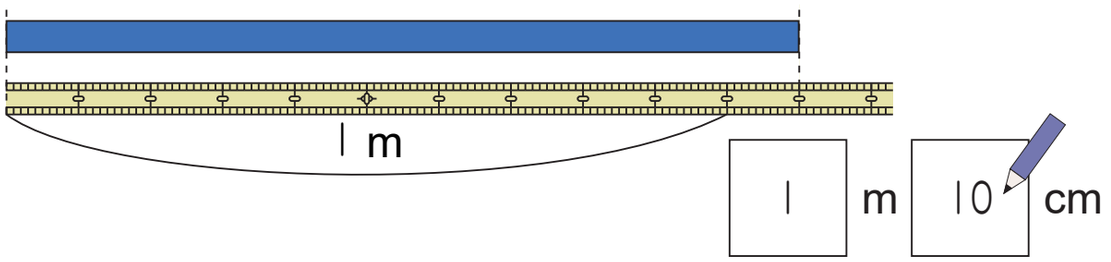
12 - 1 Length of Long Objects

Units of Length

Instruction A girl's arm span is exactly 4 ruler lengths long using a 30 cm ruler. How long is her arm span?

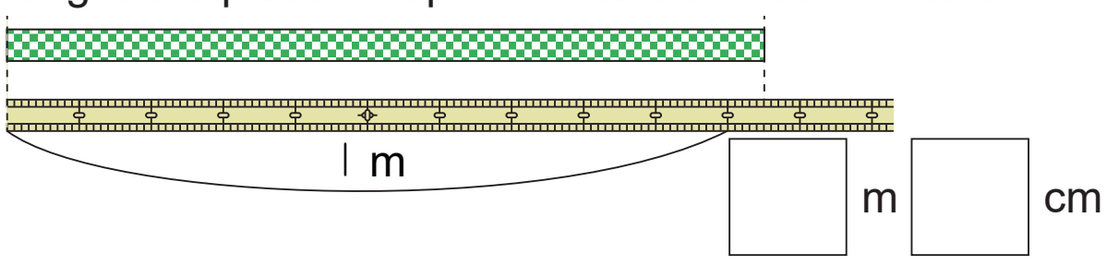


Example How long is the piece of tape in meters and centimeters?

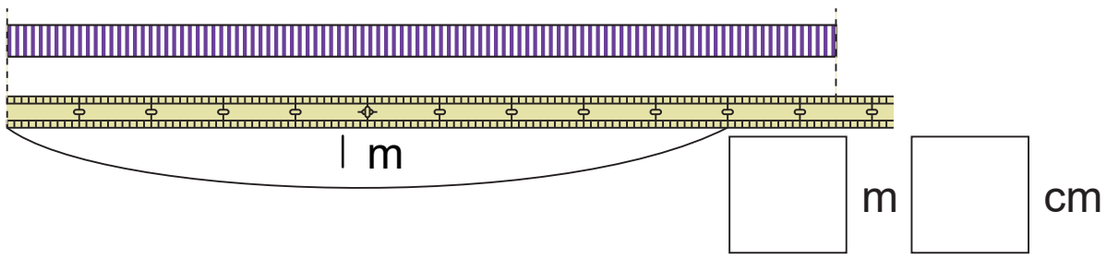


How long is the piece of tape in meters and centimeters?

1



2



12 - 2 Length of Long Objects
Addition of Lengths

Example 1 Fill in the blanks.

1 1 m = [100] cm 2 150 cm = [1] m [50] cm

Example 2 Calculate the following lengths in meters and centimeters.

1 2 m 50 cm + 1 m 10 cm = [3] m [60] cm

2 60 cm + 70 cm = [1] m [30] cm

1 Fill in the blanks.

1 400 cm = [ ] m 2 7 m = [ ] cm

3 350 cm = [ ] m [ ] cm

4 105 cm = [ ] m [ ] cm

2 Calculate the following lengths in meters and centimeters.

1 3 m + 2 m = [ ] m

2 2 m 30 cm + 1 m = [ ] m [ ] cm

3 4 m 10 cm + 50 cm = [ ] m [ ] cm

4 1 m 20 cm + 2 m 50 cm = [ ] m [ ] cm

5 1 m 30 cm + 90 cm = [ ] m [ ] cm

12 - 3 Length of Long Objects
Subtraction of Lengths

Example Calculate the following lengths in meters and centimeters.

1. 3 m − 1 m = 2 m
2. 4 m 20 cm − 1 m 10 cm = 3 m 10 cm
3. 2 m − 50 cm = 1 m 50 cm

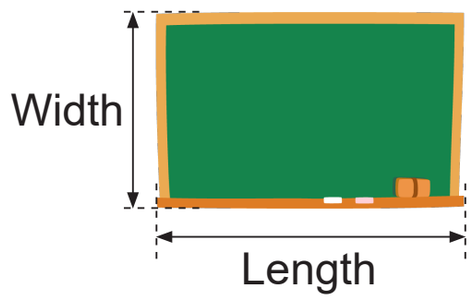
Calculate the following lengths in meters and centimeters.

1. 5 m − 2 m = ☐ m
2. 3 m 30 cm − 1 m = ☐ m ☐ cm
3. 4 m 70 cm − 20 cm = ☐ m ☐ cm
4. 1 m 20 cm − 15 cm = ☐ m ☐ cm
5. 5 m 50 cm − 2 m 10 cm = ☐ m ☐ cm
6. 2 m 45 cm − 1 m 15 cm = ☐ m ☐ cm
7. 2 m 40 cm − 1 m 25 cm = ☐ m ☐ cm
8. 10 m 50 cm − 2 m 10 cm = ☐ m ☐ cm
9. 5 m 20 cm − 2 m 50 cm = ☐ m ☐ cm
10. 7 m 30 cm − 1 m 35 cm = ☐ m ☐ cm

12 - 4 Length of Long Objects

Calculation of Lengths (1)

Example Calculate the dimensions of a blackboard.



1 The length of the blackboard is 20 cm longer than 3 m.

3	m	20	cm

2 The width of the blackboard is 6 cm longer than 2 m.

2	m	6	cm

Calculate the dimensions of a container.

1 The length of the container is 10 cm longer than 2 m.

	m		cm

2 The width of the container is 15 cm longer than 1 m.

	m		cm

3 The height of the container is 3 cm longer than 1 m.

	m		cm

12 - 5 Length of Long Objects
Calculation of Lengths (2)

Example Calculate the dimensions of a bus.

1. The length of the bus is 20 cm shorter than 7 m.

   6 m 80 cm

2. The width of the bus is 25 cm shorter than 2 m.

   1 m 75 cm

3. The height of the bus is 6 cm shorter than 3 m.

   2 m 94 cm

Calculate the dimensions of a desk.

1. The length of the desk is 10 cm shorter than 3 m.

   ☐ m ☐ cm

2. The width of the desk is 15 cm shorter than 2 m.

   ☐ m ☐ cm

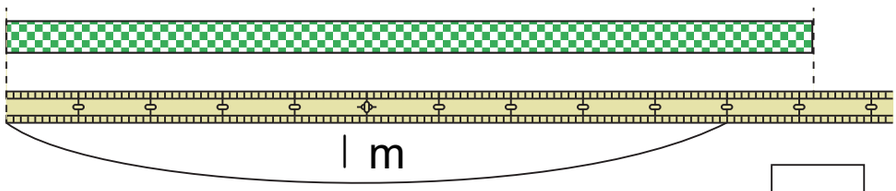
3. The height of the desk is 3 cm shorter than 1 m.

   ☐ cm

12 - 6 Length of Long Objects

Review

1 How long is the piece of tape in meters and centimeters?



☐ m ☐ cm

2 Fill in the blanks.

1. 200 cm = ☐ m
2. 6 m = ☐ cm
3. 450 cm = ☐ m ☐ cm
4. 107 cm = ☐ m ☐ cm

3 Calculate the following lengths in meters and centimeters.

1. 1 m + 3 m = ☐ m
2. 6 m 10 cm + 7 m = ☐ m ☐ cm
3. 4 m 80 cm + 1 m 50 cm = ☐ m ☐ cm

4 Calculate the following lengths in meters and centimeters.

1. 7 m − 3 m = ☐ m
2. 2 m 30 cm − 20 cm = ☐ m ☐ cm
3. 4 m 60 cm − 1 m 20 cm = ☐ m ☐ cm
4. 2 m 20 cm − 40 cm = ☐ m ☐ cm
5. 3 m 20 cm − 85 cm = ☐ m ☐ cm