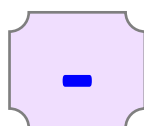# Metric units of measuring length

(subtraction and conversion without regrouping)

Example: 1

Subtract 24 millimeters and 11 millimeters.

Solution:

millimeters
2 4
1 1
1 3

-

mm

Hence, 24 millimeters - 11 millimeters = **13 millimeters**.

So, answer is **13 millimeters.**

Convert 13 millimeters into centimeters.

Solution:

mm ⟹ cm

$$1 \text{ mm} = \frac{1}{10} \text{ cm}$$

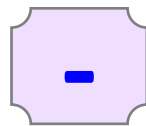$$13 \text{ mm} = \frac{13}{10} \text{ cm}$$

$$= 1.3 \text{ cm}$$

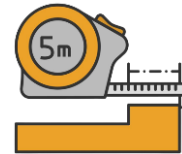So , **13 mm** is equal to **1.3 cm**.

Example: 2

Subtract 37 meters and 32 meters.

Solution:

meters
3 7
3 2
0 5

$-$

Hence, 37 meters – 32 meters = **5 meters**.

So, answer is **5 meters.**

Convert 5 meters into millimeters.

Solution:
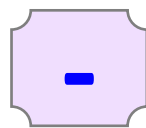
$$1\ m\ =\ 1000\ mm$$

$$5\ m\ =\ 5 \times 1000\ mm$$

$$=\ 5000\ mm$$

So, **5 m** is equal to **5000 mm**.

Example: 3

Subtract 26 kilometers and 10 kilometers.

Solution:

kilometers
2 6
1 0
1 6

-

km

Hence, 26 kilometers – 10 kilometers = **16 kilometers**.

So, answer is **16 kilometers.**

Convert 16 kilometers into meters.

Solution:

km ⇒ m

$$1 \text{ km} = 1000 \text{ m}$$

$$16 \text{ km} = 16 \times 1000 \text{ m}$$

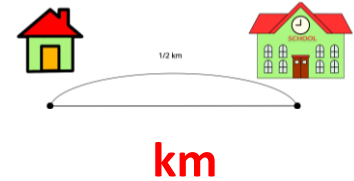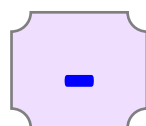$$= 16000 \text{ m}$$

So , **16 km** is equal to **16000 m**.

Example: 4

Subtract 45 centimeters and 23 centimeters.

Solution:

centimeters
4 5
2 3
2 2

-

Hence, 45 centimeters – 23 centimeters = **22 centimeters**.

So, answer is **22 centimeters.**

Convert 22 centimeters into millimeters.

Solution:

cm ⇒ mm

1 cm = 10 mm

22 cm = **22 x 10** mm

= **220 mm**

So , **22 cm** is equal to **220 mm**.

Example: 5

Subtract 57 millimeters and 32 millimeters.

Solution:

millimeters
5 7
3 2
2 5

−

mm

Hence, 57 millimeters – 32 millimeters = **25 millimeters**.

So, answer is **25 millimeters.**

Convert 25 millimeters into meters.

Solution:

mm ⇒ m

$$1 \text{ mm} = \frac{1}{1000} \text{ m}$$

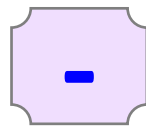$$25 \text{ mm} = \frac{25}{1000} \text{ m}$$

$$= 0.025 \text{ m}$$

So , **25 mm** is equal to **0.025 m**.

Example: 6

Subtract 48 meters and 16 meters.

Solution:

m

meters
4 8
1 6
3 2

−

Hence, 48 meters − 16 meters = **32 meters**.

So, answer is **32 meters.**

Convert 32 meters into kilometers.

Solution:

m ⟹ km

$$1 \text{ m} = \frac{1}{1000} \text{ km}$$

$$32 \text{ m} = \frac{32}{1000} \text{ km}$$

$$= 0.032 \text{ km}$$

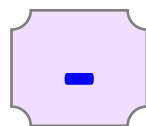So , **32 m** is equal to **0.032 km**.

Example: 7

Subtract 65 centimeters and 24 centimeters.

Solution:

centimeters
6 5
2 4
4 1

-

Hence, 65 centimeters – 24 centimeters = **41 centimeters**.

So, answer is **41 centimeters.**

Convert 41 centimeters into meters.

Solution:

$$1 \text{ cm} = \frac{1}{100} \text{ m}$$
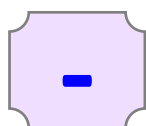
$$41 \text{ cm} = \frac{41}{100} \text{ m}$$

$$= 0.41 \text{ m}$$

So , **41 cm** is equal to **0.41 m**.

Example: 8

Subtract 59 meters and 42 meters.

Solution:

meters
5 9
4 2
1 7

-

m

Hence, 59 meters – 42 meters = **17 meters**.

So, answer is **17 meters.**

Convert 17 meters into centimeters.

Solution:

m ⟹ cm

$$1 \text{ m} = 100 \text{ cm}$$

$$17 \text{ m} = 17 \times 100 \text{ cm}$$

$$= 1700 \text{ cm}$$

So , **17 m** is equal to **1700 cm**.