

Review Exercise Set 34

Exercise 1: Convert the following measurement.

$$53 \text{ cm} = ? \text{ mm}$$

Exercise 2: Convert the following measurement.

$$17038 \text{ cm} = ? \text{ km}$$

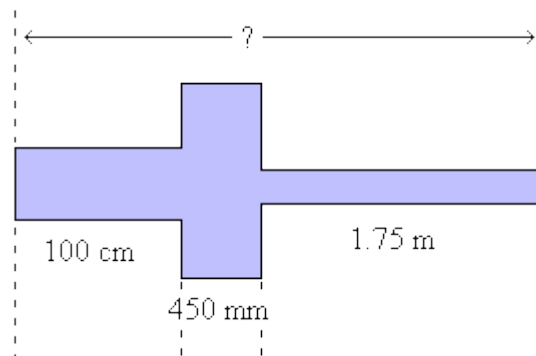
Exercise 3: Convert the following measurement.

$$5 \text{ m } 39 \text{ cm} = ? \text{ m}$$

Exercise 4: Convert the following measurement.

$$8 \text{ km } 95 \text{ m} = ? \text{ km}$$

Exercise 5: Find the total length, in centimeters, of the object in the diagram below.



Review Exercise Set 34 Answer Key

Exercise 1: Convert the following measurement.

$$53 \text{ cm} = ? \text{ mm}$$

Conversion factor: $1 \text{ cm} = 10 \text{ mm}$

$$53 \text{ cm} \times \frac{10 \text{ mm}}{1 \text{ cm}} = \frac{530 \text{ mm}}{1} = 530 \text{ mm}$$

The correct answer is that 53 cm = 530 mm

Exercise 2: Convert the following measurement.

$$17038 \text{ cm} = ? \text{ km}$$

Conversion factors: $100 \text{ cm} = 1 \text{ m}$
 $1000 \text{ m} = 1 \text{ km}$

$$17038 \text{ cm} \times \frac{1 \text{ m}}{100 \text{ cm}} \times \frac{1 \text{ km}}{1000 \text{ m}} = \frac{17038 \text{ km}}{100000} = 0.17038 \text{ km}$$

The correct answer is that 17038 cm = 0.17038 km

Exercise 3: Convert the following measurement.

$$5 \text{ m } 39 \text{ cm} = ? \text{ m}$$

First, convert the centimeters into meters

$$39 \text{ cm} \times \frac{1 \text{ m}}{100 \text{ cm}} = \frac{39 \text{ m}}{100} = 0.39 \text{ m}$$

Now, add the result to the meters in the given measurement

$$5 \text{ m} + 0.39 \text{ m} = 5.39 \text{ m}$$

The correct answer is that 5 m 39 cm = 5.39 m

Exercise 4: Convert the following measurement.

$$8 \text{ km } 95 \text{ m} = ? \text{ km}$$

Convert the given meters to kilometers

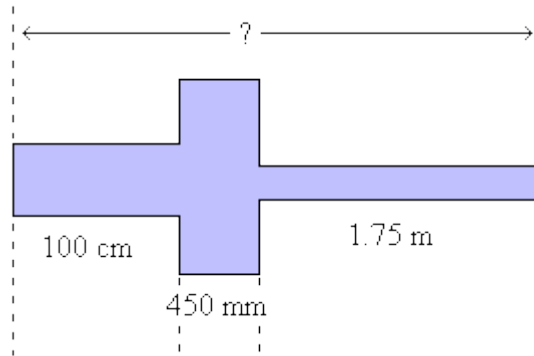
$$95 \text{ m} \times \frac{1 \text{ km}}{1000 \text{ m}} = \frac{95 \text{ m}}{1000} = 0.095 \text{ km}$$

Add the kilometer measurements together

$$8 \text{ km} + 0.095 \text{ km} = 8.095 \text{ km}$$

The correct answer is that 8 km 95 m = 8.095 km

Exercise 5: Find the total length, in centimeters, of the object in the diagram below.



Convert all individual measurements into centimeters

$$450 \text{ mm} \times \frac{1 \text{ cm}}{10 \text{ mm}} = \frac{450 \text{ cm}}{10} = 45 \text{ cm}$$

$$1.75 \text{ m} \times \frac{100 \text{ cm}}{1 \text{ m}} = \frac{175 \text{ cm}}{1} = 175 \text{ cm}$$

Add the centimeters together

$$100 \text{ cm} + 45 \text{ cm} + 175 \text{ cm} = 320 \text{ cm}$$

The correct answer is that the total length of the object is 320 cm