



**STATE COUNCIL OF EDUCATIONAL RESEARCH AND TRAINING**  
TELANGANA, HYDERABAD.

**ACADEMIC YEAR 2020-21**

**Class: 5**

**Medium: English**

**Subject: Mathematics**

**Unit: 4**

**Chapter: Smaller lengths – bigger lengths**

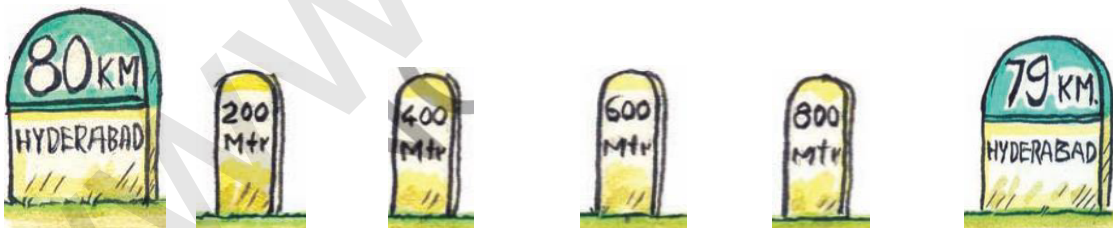
**Worksheet**

**I. Learning outcomes:**

- Able to understand the concept of kilometers.
- Able to convert units from Kilometers to meters and vice versa.
- Able to measure lengths/distances in daily life.

**II. Conceptual understanding/Activity/Model problem:**

- How far is your mandal center from your village?
- How far is Hyderabad from your village?
- Which unit is used to measure distance between any two villages or towns?
- How many meters are there in a kilometer?
- To know the above, observe the activity of Shanu's bus journey to Hyderabad on page no. 44 of the mathematics textbook.



That is, the distance between the 80<sup>th</sup> k.m. milestone to 79<sup>th</sup> k.m. milestones is one kilometer

Briefly we can write as.... Each k.m has five milestones for every 200m. that are 200m., 400m., 600m. and 800m.

$1 \text{ k.m} = 1000 \text{ m.}$
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That means..... 1000 meters are there in a kilometer

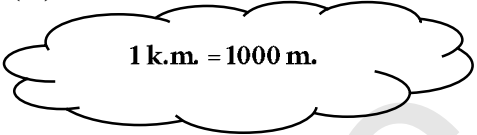
**1. How many meters are there in an half-kilometer ( $\frac{1}{2}$ )?**

Half a kilometer is one-second of the kilometer

$$1 \text{ k.m.} = 1000 \text{ m.}$$

$$\frac{1}{2} \text{ k.m.} = 1000 \text{ m.} \div 2$$

$$\frac{1}{2} \text{ k.m.} = 500\text{m.}$$



$1 \text{ k.m.} = 1000 \text{ m.}$

**2. How many meters are there in a Quarter-kilometer ( $\frac{1}{4}$ )?**

Half a kilometer is one-fourth of the kilometer

$$1 \text{ k.m.} = 1000 \text{ m.}$$

$$\frac{1}{4} \text{ k.m.} = 1000 \text{ m.} \div 4$$

$$\frac{1}{4} \text{ k.m.} = 250\text{m.}$$



$1 \text{ k.m.} = 1000 \text{ m.}$

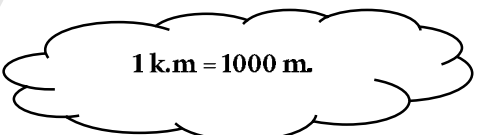
**3. Let us learn how to convert units from kilometers to meters.**

**A. How many meters are there in a 3 k.m.?**

$$3 \text{ k.m.} = 3 \times 1 \text{ k.m.}$$

$$= 3 \times 1000 \text{ m.}$$

$$3 \text{ k.m.} = 3000 \text{ m.}$$



$1 \text{ k.m} = 1000 \text{ m.}$

**B. How many meters are there in 6 k.m. 250m.?**

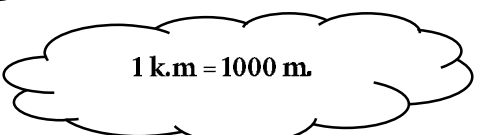
$$6 \text{ k.m.} 250 \text{ m.} = 6 \text{ k.m.} + 250 \text{ m.}$$

$$= 6 \times 1 \text{ k.m.} + 250 \text{ m.}$$

$$= 6 \times 1000 \text{ m.} + 250 \text{ m.}$$

$$= 6000 \text{ m.} + 250 \text{ m.}$$

$$= 6250 \text{ m.}$$



$1 \text{ k.m} = 1000 \text{ m.}$

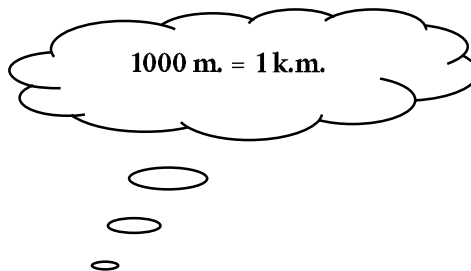
4. Let us learn how to convert units from meters to kilometers.

A. How many kilometers are there in 5000 meters?

$$5000 \text{ m.} = 5 \times 1000 \text{ m.}$$

$$= 5 \times 1 \text{ k.m.}$$

$$= 5 \text{ k.m.}$$



B. How many kilometers are there in 2370 meters?

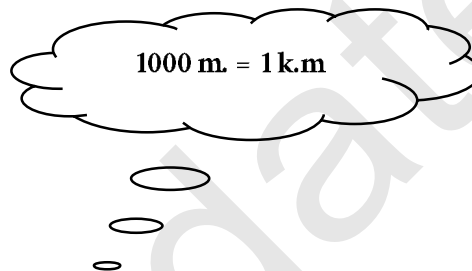
$$2730 \text{ m.} = 2000 \text{ m.} + 730 \text{ m.}$$

$$= 2 \times 1000 \text{ m.} + 730 \text{ m.}$$

$$= 2 \times 1 \text{ k.m.} + 730 \text{ m.}$$

$$= 2 \text{ k.m.} + 730 \text{ m.}$$

$$2730 \text{ m.} = 2 \text{ k.m.} 730 \text{ m.}$$



5. The distance between various towns to Hyderabad is given in the following table.

Name of the City	Distance
Vijayawada	284 k.m.
Kodada	162 $\frac{2}{3}$ m.
Suryapet	120 k.m.
Jangon	92 k.m.
Warangal	147 k.m.

Observe the table and answer the following questions..

A. Which town is far from Hyderabad?

Vijayawada town is far from Hyderabad.

B. Which town is near to Hyderabad?

Jangon town is near to hyderabad.

C. Write the distances between various towns to Hyderabad in ascending order?

92 k.m. < 120 k.m. < 147 k.m. < 162 k.m. < 284 k.m.

D. Which distance is lesser? The distance between Hyderabad and Warangal or Hyderabad and Vijayawada?

Distance between Hyderabad and Vijayawada = 284 k.m.

Distance between Hyderabad and Warangal = 147 km.m.

Difference between the distances = 284 k.m. - 147 k.m.

= 137 k.g.

### III. Worksheet:

1. Convert the following kilometers into meters.

A. 7 k.m.

F. 1 k.m. 901m.

B. 6 k.m. 100 m.

G. 15 k.m.

C. 2 k.m. 615 m.

H. 20 k.m.

D. 10 k.m.

I. 12 k.m. 325 m.

E. 4 k.m. 506 m.

J. 5 k.m.

2. Convert the following meters into kilometers?

A. 1700 m.

E. 9006 m.

B. 5,124 m.

F. 4125 m.

C. 4000 m.

G. 19000 m.

D. 11000 m.

H. 6009 m.

3. The distance between the various towns to Hyderabad is given in the following table.

Name of the	Distance
Nalgonda	100 k.m.
Adilabad	305 k. m.
Karimnagar	164 k.m.
Khammam	195 k.m.
Bhadrachalam	310 k.m.

Observe the table and answer the following questions.

- A. Which town is far from Hyderabad?
- B. Which town is near to Hyderabad?
- C. Write the distances between various towns to Hyderabad in ascending order?
- D. Which distance is far? The distance between Hyderabad and Khammam or Hyderabad and Adilabad?

**Instructions:**

- Solve the problems in page number 45 and 48 in your mathematics textbook.
- Collect some more such problems and solve it. Discuss with your friends.

**IV. What I have learnt:**

1. I understand the concept of kilometers.

I did

I did not

2. I can convert units from kilometers to meters and vice versa.

I Can do

I Can't do

3. I can measure the/distances in daily life.

I Can do

I Can't do