

yo जा International School Shree Swaminarayan Gurukul, Zundal



<u>MATH-MAGIC</u>

<u> Year- 2020-21</u>





Long and Short

<u>Summary</u>

- Measurement of length
- Draw the line segment of the following.
- Which is a better unit to measure these? (cm, m or km)
- Conversion of measures from higher to lower units
- Conversion of measures from lower to higher units
- Convert the following lengths into metres
- Convert the following lengths into metre and centimetre
- Addition and Subtraction
- Metric Measure of Length
- Complete the table and answer the questions below
- Read the following table and answe<mark>r the following question</mark>





6. Height of your pet_____

7. Length of 500 rupees note_____

8. Distance from Bangalore to Rajasthan _____

9. Thickness of your lunch box _____

10. Height of Qutub Minar _____

Conversion of measures from higher to lower units

We always <u>multiply</u> when we change higher unit to lower unit.

Example 1: Change 4km into meters

1km =1000m

Therefore, $4 \ge 1000 \text{m} = 4000 \text{m}$

Example 2: Change 25m into centimetres

1m = 100cm

Therefore, 25×100 cm = 2500cm

- 1. 4 km = 4 x 1000m = 4000m 2. 12 km = 12 x 1000m = _____ 3. 3 km = 3 x 1000m = _____ 4. 10 km = 10 x 1000m = _____
- 5. 12 m = 12 x 100 =
- 6. $3m = 3 \times 100 =$ _____

• Conversion of measures from lower to higher units

We always divide when we change lower unit to higher unit.

Example 1: Change 6000m to kilometre

1000m = 1km

Therefore, $6000 \div 1000 = 6$ km

- 1. $2000m = 2000 \div 1000 = 2km$
- 2. $4000m = 4000 \div 1000 =$ _____
- 3. $12000m = 12000 \div 1000 =$ _____
- 4. $6000m = 6000 \div 1000 =$ _____

• Convert the following lengths into metres.

Example: 9 km 236 m= 9 x 1000 m + 236 m= 9000 m + 236 m= 9236 m

- 1.7 km 205m
- 2. 12km 60m
- 3. 19km 215m
- 4. 16km 115m

• Convert the following lengths into metre and centimetre.

Example: 526cm = 500 + 20 + 6 cm= 5 x 100 + 20 + 6 cm = 5 m + 26 cm = 5 m 26 cm

- 1. 327 cm
- 2. 951 cm
- 3. 702 cm
- 4. 864 cm

Addition and Subtraction

<u>Step1:</u> Write the units on the top.

<u>Step2:</u> Write the numbers in proper place below the units. Write zero in empty place.

Example: Add 45km 34m and 34km 5m

	km	m
	45	034
+	34	005
	79	039

• Add the following:

a. 21km 1m + 31km 7m

b. 31km 605m + 12km 22m

• Subtract the following:

• Example: Subtract 15km 30m from 35km 45m

km	m
35	045
- 15	030
20	015

a. 48km – 24km 200m

km	m
48	000
- 24	200

b. 85km 542m - 14km 34m

km	m
48	542
- 24	034

Metric Measure of Length

1. Answer the following:

a. How many meters are there in 22km? _

b. What is the standard unit of length?

Which unit of length is 100 times greater than meter? _

2. Word problem:

a. Arya travelled 5km 300m by car and 1km 100m by bike. What distance did he travel in all?

c.

5 km 300 m by car

+ 1 km 100 m by bike

Ans:_

b. Gaurav is 92cm tall. His brother is 60cm taller than him. What is the height of his brother?

92 cm 60 cm

Ans:_

• Complete the table and answer the questions below

sl.no	name of the plant	last months Height	this month height	cm-grown Total
1	TULSI	5cm	8cm	-
2	MANGO	10cm	13cm	1
3	BAMBOO	20cm	38cm	
4	ROSE	32cm	32cm	

a. The plant which has grown maximum is_____

b. The plant which has grown minimum is_____

c. The plant which has not grown_____

d. The plant which has grown by 18cm is _____

e. This month _____ plant is taller than ____

• Read the following table and answer the following question

SL.NO	NAMES	DISTANCE OF SIXES BEATENIN A CRICKET MATCH
1	SACHIN	90m
2	YUVARAJ	101m 5cm
3	GAMBHIR	52m 25cm

a. What is the difference between the distance hit by Sachin and Yuvaraja?



Q.6. Complete the table

metres		5	7	
centimetres	100			800

- Q.7. Ram is 1 m 23 cm tall. Seeta is 12 cm shorter than Ram. What is their total height?
- Q.8. A room has 6 m length and 4 m breadth. What is the perimeter of the room?
- Q.9. Find the total distance covered by Mohan from home to school.

