

Using decimals to express length

Decimals are used to express lengths in higher units.

Rini's father travels a distance of 7 km 500 m from home to office. 7 km 500 m is the same as 7500 m ($7 \times 1000 \text{ m} + 500 \text{ m}$). Using decimals, 7 km 500 m can be written as 7.500 km.

7 km 500 m = 7 . 500 km 7 km \checkmark 500 m

EXAMPLE 1 There was 2.1 cm rainfall on Monday. How much is that in mm?

 $2.1 \times 10 = 21 \text{ mm}$

C ANS. The rainfall on Monday was 21 mm.

EXAMPLE 2 My mother is 153 cm tall. How much will that be in m?

 $153 \div 100 = \frac{153}{100} = 1.53 \text{ m}$

C ANS. My mother is 1.53 m tall.

Think! cm → mm big → small So, we multiply.



Think! $cm \rightarrow m$ $small \rightarrow big$ So, we divide.

> Change into mm before finding

> > the answer

ENRICHMENT ACTIVITY

MENTAL MATHS

Fill in the blanks.

- A pile of 10 notebooks is 10 cm high. The thickness of 1 notebook is ________ mm.
- 2. A stack of 10 erasers is 5 cm high. Each eraser is ______ mm thick.
- 3. A stack of 10 bedsheets is 85.5 cm high. One bedsheet is 89.5 mm thick.
- 4. 100 papads in a packet are 2.5 cm high. Each papad is 0.25 mm thick.



C. Complete the table.

	MEASUREMENT	IN BIGGER UNITS	IN SMALLER UNITS
1.	5 m 40 cm	5.40 m	540 cm
2.	35 m 55 cm	35.55 m	3555cm
3.	4m27cm	4.27m	427 cm
4.	16m 5cm	16.05 m	1605cm
5.	9 m 5 cm	9.05m	905cm