## HOTS question

Tick $(\checkmark)$ the correct answer. To change km into cm , you need to multiply by

| 10 | 100 | 1000 | 10000 | 100000 |
| :--- | :--- | :--- | :--- | :--- |

## 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 $7500 \mathrm{~m}(7 \times 1000 \mathrm{~m}+500 \mathrm{~m})$.
Using decimals, 7 km 500 m can be written as 7.500 km .


$$
\begin{aligned}
7 \mathrm{~km} 500 \mathrm{~m}=7 . & 500 \mathrm{~km} \\
7 \mathrm{~km} & \longrightarrow 500 \mathrm{~m}
\end{aligned}
$$

EXAMPLE 1 There was 2.1 cm rainfall on Monday. How much is that in mm?
$2.1 \times 10=21 \mathrm{~mm}$
(3) ANS. The rainfall on Monday was 21 mm .

EXAMPLE 2 My mother is 153 cm tall.

$$
\text { How much will that be in } \mathrm{m} \text { ? }
$$

$153 \div 100=\frac{153}{100}=1.53 \mathrm{~m}$
ت) ANS. My mother is 1.53 m tall.

## MENTAL MATHS

## Fill in the blanks.

1. A pile of 10 notebooks is 10 cm high. The thickness of 1 notebook is 10 mm .
2. A stack of 10 erasers is 5 cm high.


Think!

## Think!

$\mathrm{cm} \rightarrow \mathrm{m}$ small $\rightarrow$ big So, we divide. Each eraser is 5 mm thick.
3. A stack of 10 bedsheets is 85.5 cm high. One bedsheet is 85.5 mm thick.
4. 100 papads in a packet are 2.5 cm high. Each papad is 0.25 mm thick.


(HIIPLE 3 The wheel of a bicycle covers a distance of 2 m in 1 revolution. How much distance would it cover in 600 revolutions? Write your answer in km .
Distance covered in 600 revolutions $=2 \times 600=1200 \mathrm{~m}$

$$
1200 \mathrm{~m} \div 1000=\frac{1200}{1000}=1.2 \mathrm{~km}
$$


(9) ANs. The wheel would cover 1.2 km in 600 revolutions.

ExMPLE 4 To reach an island, John travelled 6.5 km by a ship and 4 km 275 m by a boat. What is the total distance travelled by John?
Distance travelled by ship $=6.5 \mathrm{~km}=6.500 \mathrm{~km}$ Distance travelled by boat $=4 \mathrm{~km} 275 \mathrm{~m}=4.275 \mathrm{~km}$

$$
\begin{array}{r}
6.500 \\
+4.275 \\
\hline 10.775
\end{array}
$$

Total distance travelled $=6.500+4.275$
-) ANS. John travelled a total distance of 10.775 km .

C. Complete the table.
1.
2.
3.
4.

| MEASUREMENT | IN BIGGER UNITS | IN SMALLER UNITS |
| :---: | :---: | :---: |
| 5 m 40 cm | 5.40 m | 540 cm |
| $35 \mathrm{~m} \mathrm{55cm}$ | 35.55 m | 3555 cm |
| 4 m 27 cm | 4.27 m | 427 cm |
| 16 m 5 cm | 16.05 m | 1605 cm |
| 9 m 5 cm | 9.05 m | 905 cm |

