

Teacher - We know that 1 metre = 100 centimeters.

Sonam, can you tell how many metres will be there in 1 centimetre?

Sonam - $\frac{1}{100}$ metre

Teacher - Correct ! we can write $\frac{1}{100}$ metre in decimal too.

Let's use decimals -



We use different units to measure **length**. For example- millimetre, decimetre, centimetre, decametre are used to measure short lengths where as kilometre, mile etc. are used to measure long length.

1 millimetre = $\frac{1}{1000}$ metre	= 0.001 metre	1 decametre = 10 metres
1 centimetre = $\frac{1}{100}$ metre	= 0.01 metre	1 hectometre = 100 metres
1 decimetre = $\frac{1}{10}$ metre	= 0.1 metre	1 kilometre = 1000 metres

Length (in millimetre - centimetre)

$$10 \text{ mm} = 1 \text{ cm}$$

$$1 \text{ mm} = \frac{1}{10} \text{ cm} = 0.1 \text{ cm}$$

$$2 \text{ mm} = \frac{2}{10} \text{ cm} = 0.2 \text{ cm}$$



Convert mm into cm



7 mm



5 cm 6 mm



Length (in centimetre - metre)

$$100 \text{ cm} = 1 \text{ metre}$$

$$1 \text{ cm} = \frac{1}{100} \text{ metre} = 0.01 \text{ metre}$$

$$10 \text{ cm} = \frac{10}{100} \text{ metre} = 0.10 \text{ metre}$$

$$13 \text{ cm} = \frac{13}{100} \text{ metre} = 0.13 \text{ metre}$$



Convert cm into metre

● 8 cm

● 2 metre 05 cm

Length (in metre - kilometre)

$$1000 \text{ metre} = 1 \text{ kilometre (km)}$$

$$1 \text{ metre} = \frac{1}{1000} \text{ km} = 0.001 \text{ km}$$

$$10 \text{ metre} = \frac{10}{1000} \text{ km} = 0.010 \text{ km}$$

$$18 \text{ metre} = \frac{18}{1000} \text{ km} = 0.018 \text{ km}$$

$$100 \text{ metre} = \frac{100}{1000} \text{ km} = 0.100 \text{ km}$$

$$121 \text{ metre} = \frac{121}{1000} \text{ km} = 0.121 \text{ km}$$



Write into kilometre

● 9 metre

● 4 km 12 metre



We use different units to measure **weight**. For example - milligram, decigram, centigram, decagram are used for *light weights* whereas kilogram, quintal etc. are used for *heavy weights*.

$$1 \text{ milligram} = \frac{1}{1000} \text{ g} = 0.001 \text{ g}$$

$$1 \text{ decagram} = 10 \text{ g}$$

$$1 \text{ centigram} = \frac{1}{100} \text{ g} = 0.01 \text{ g}$$

$$1 \text{ hectogram} = 100 \text{ g}$$

$$1 \text{ decigram} = \frac{1}{10} \text{ g} = 0.1 \text{ g}$$

$$1 \text{ kilogram} = 1000 \text{ g}$$

Weight (in gram - kilogram)

$$1000 \text{ g} = 1 \text{ kilogram}$$

$$1 \text{ g} = \frac{1}{1000} \text{ kg.} = 0.001 \text{ kg}$$

$$10 \text{ g} = \frac{10}{1000} \text{ kg.} = 0.010 \text{ kg}$$

$$100 \text{ g} = \frac{100}{1000} \text{ kg.} = 0.100 \text{ kg}$$



Convert into kilogram -

● 47 g

● 17 kg. 325 g

We use different units to measure **capacity**. For example - millilitre, decilitre, centilitre, decalitre are used for *less capacity* where as kilolitre, etc. are used for *large capacity*.



$$1 \text{ millilitre} = \frac{1}{1000} \text{ litre} = 0.001 \text{ litre}$$

$$1 \text{ decalitre} = 10 \text{ litre}$$

$$1 \text{ centilitre} = \frac{1}{100} \text{ litre} = 0.01 \text{ litre}$$

$$1 \text{ hectolitre} = 100 \text{ litre}$$

$$1 \text{ decilitre} = \frac{1}{10} \text{ litre} = 0.1 \text{ litre}$$

$$1 \text{ kilolitre} = 1000 \text{ litre}$$

Capacity (in millilitre - litre)

$$1000 \text{ mL} = 1 \text{ litre}$$

$$1 \text{ mL} = \frac{1}{1000} \text{ litre} = 0.001 \text{ litre}$$

$$10 \text{ mL} = \frac{10}{1000} \text{ litre} = 0.010 \text{ litre}$$

$$100 \text{ mL} = \frac{100}{1000} \text{ litre} = 0.100 \text{ litre}$$



Convert into litre

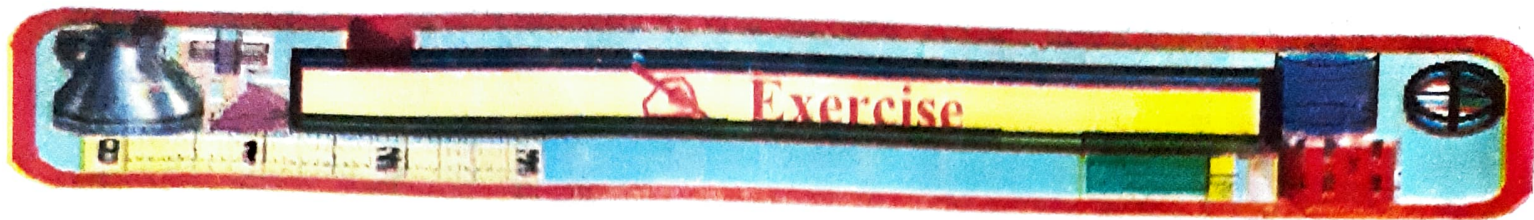
● 99 mL

● 79 litre 879 mL

We have learnt

To find out the sum and difference of decimal number in day to day life.





1. Write in metres using decimal point -
(a) 68 cm (b) 16 metres 7 cm (c) 343 metres 50 cm
(d) 532 cm (e) 12 metres 30 cm
2. Write in centimetres using decimal point -
(a) 8 cm 7 mm (b) 63 mm (c) 168 mm
(d) 50 cm 5 mm (e) 25 cm 25 mm
3. Write in kilometres using decimal point -
(a) 8 km 625 metres (b) 17 metres (c) 8 metres
(d) 178 km 30 metres (e) 16 km 135 metres (f) 1125 metres
4. The distance between handpump and soakpit of the toilet is 10 metres. Write this distance in kilometres.
5. Convert into kilograms -
(a) 5 kg 365 g (b) 32578 g
(c) 228 kg 536 g (d) 450 kg 250 g
6. Convert into litres -
(a) 365 kilolitres 15 litres (b) 4 litres 515 mL
(c) 8 litres 5 mL (d) 5 litres 45 mL
7. Rajan needs 1.20 metres, Mohit needs 1.30 metres and Arshad needs 1.10 metres cloth for their shirts. How many centimetres of cloth will be needed for all the three shirts?



My Introduction - In this way too

Nowadays we are asked to fill information like - date of birth, roll number, Aadhar card no., mobile no. on OMR (Optical Mark Recognition) sheet. In future you will also have to fill your information on OMR sheet for different examinations. Format of OMR sheet is given below. For an example one date of birth is filled on OMR sheet -

Date of birth - 18-09-2007

Date of birth							
1	8	0	9	2	0	0	7
☐	☐	☒	☐	☐	☒	☒	☐
☒	☐	☐	☐	☐	☐	☐	☐
☐	☐	☐	☐	☒	☐	☐	☐
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☐	☒	☐	☐	☐	☐	☐	☐
☐	☐	☐	☒	☐	☐	☐	☐

Now, fill your date of birth -

Date of birth							
D	D	M	M	Y	Y	Y	Y
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☐	☐	☐	☐	☐	☐	☐	☐
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Note: - Make the children practise to fill different information on OMR sheet.



1. Fill in the blanks with the sign of greater ' $>$ ' or smaller ' $<$ ' -

(a) 1089 1098

(b) 2316 2297

(c) $\frac{2}{7}$ $\frac{4}{5}$

(d) $\frac{1}{2}$ $\frac{1}{3}$

(e) $\frac{4}{5}$ $\frac{3}{8}$

2. Arrange the numbers $\frac{5}{8}$, $\frac{3}{8}$, $\frac{7}{8}$, $\frac{3}{4}$, $\frac{1}{2}$ in ascending and descending order-

3. Fill in the blanks -

(a) $\frac{3}{7} = \frac{\boxed{}}{21}$

(b) $\frac{9}{8} = \frac{45}{\boxed{}}$

(c) $\frac{5}{8} = \frac{15}{\boxed{}}$

(d) $\frac{8}{17} = \frac{\boxed{}}{51}$

4. Simplify -

(a) $\frac{1}{2} + \frac{4}{2} - \frac{3}{2}$

(b) $84 \div 12 \times 3 - 6 + 2$

(c) $\frac{5}{7} + \frac{1}{7} - \frac{2}{7}$

(d) $9 \times 12 + 18 \div 6 - 16$

(e) $1.563 \text{ kg} + 0.901 \text{ kg}$

(f) $15.6 \text{ L} + 10.543 \text{ L}$

5. Convert the given decimal numbers into fractions.

(a) 0.07

(b) 3.9

(c) 0.008

6. Is 0.9 equal to 0.09 ? Answer giving suitable reason.