

Worksheet

Measurement

Question 1: How much more is to be added to 500 g to make it equal to 1 kg?

Answer : $1 \text{ kg} = 1000 \text{ g}$

$\frac{1}{2} \text{ kg} = 500 \text{ g}$

So, we need 500 g to make it equal to 1 kg.

Question 2: A 1 l bottle is half full. How many millilitres are there in the bottle?

Answer : $1 \text{ l} = 1000 \text{ ml}$

$\frac{1}{2} \text{ l} = 500 \text{ ml}$

So, the bottle has 500 ml

Question 3: Convert the following lengths into centimetres:

1 m = 100 cm

• 16 m

$$16 \times 100 = 1600 \text{ cm}$$

• 45 m 50 cm

$$45 \times 100 + 50 = 4550 \text{ cm}$$

Question 4: Express as centimetres:

1m = 100 cm

• 12 m

$$12 \times 100 = 1200 \text{ cm}$$

• 152 m

$$152 \times 100 = 15200 \text{ cm}$$

• 16 dm

$$16 \times 100 = 1600 \text{ cm}$$

• 5 m 40 cm

$$5 \times 100 + 40 = 540 \text{ cm}$$

• 96 m 5 cm

$$96 \times 100 + 5 = 965 \text{ cm}$$

Question 5: Express as millimetres:

1 cm = 10 mm

• 19 cm

$$19 \times 10 = 190 \text{ mm}$$

• 73 cm

$$73 \times 10 = 730 \text{ mm}$$

• 8 cm

$$8 \times 10 = 80 \text{ mm}$$

• 97 cm 8 mm

$$97 \times 10 + 8 = 978 \text{ mm}$$

Question 6: Express as metres:

1 cm = 0.01 m

1 dm = 0.1 m

• 2,465 cm = 24.65 m

• 73 dm = 7.3 m

• 172 dm = 17.2 m

• 483 dm = 48.3 m

• 15 dm 5 cm = 1.5 + 0.05 = 1.55 m

Question 7: Express as kilometres and metres:

1 m = 0.001 km

• 8,560 m = 8.560 km

• 9,567 m = 9.567 km

Question 8: Express as centimetres and millimetres:

1 cm = 10 mm

• 37 mm = 3.7 cm

• 83 mm = 8.3 cm

Question 9: Add:

• 7 m 62 cm + 12 m 45 cm = 20m 07cm

• 12 cm 6 mm + 25 cm 9 mm = 38cm 5mm

• 2 cm 7 mm + 4 cm 9 mm = 7cm 9mm

• 5 km 439 m + 16 km 851 m = 22km 290m

- $78 \text{ km } 126 \text{ m} + 93 \text{ km } 508 \text{ m} = 171 \text{ km } 634 \text{ m}$

Question 10: Subtract:

- $18 \text{ cm } 4 \text{ mm} - 7 \text{ cm } 7 \text{ mm} = 10 \text{ cm } 4 \text{ mm}$
- $86 \text{ cm } 2 \text{ mm} - 57 \text{ cm } 5 \text{ mm} = 28 \text{ cm } 7 \text{ mm}$
- $76 \text{ km } 293 \text{ m} - 38 \text{ km } 508 \text{ m} = 37 \text{ km } 785 \text{ m}$
- $125 \text{ m } 12 \text{ cm} - 68 \text{ m } 56 \text{ cm} = 56 \text{ m } 56 \text{ cm}$
- $37 \text{ km } 832 \text{ m} - 15 \text{ km } 948 \text{ m} = 21 \text{ km } 884 \text{ m}$

Question 11: Express as kg and g:

$1 \text{ g} = 0.001 \text{ kg}$

- $3,208 \text{ g} = 32.08 \text{ kg}$
- $12,670 \text{ g} = 126.70 \text{ kg}$
- $18,196 \text{ g} = 181.96 \text{ kg}$
- $8,005 \text{ g} = 80.05 \text{ kg}$
- $38,450 \text{ g} = 384.50 \text{ kg}$

Question 12: Answer the following questions:

- Kartik's doll weighs 2 kg 890 g and Manohar's doll weighs 3 kg 890 g.
What is the weight of both the dolls?

Answer : Kartik's doll weighs = 2 kg 890 g

Manohar's doll weighs = 3 kg 890 g

Weight of both dolls = 6 kg 780 g

- The weight of a watermelon is 3 kg 425 g. The weight of a pineapple is 2 kg 530 g. By how much is the watermelon heavier?

Answer : The weight of a watermelon = 3 kg 425 g

The weight of a pineapple is = 2 kg 530 g

Watermelon is heavier by = $3 \text{ kg } 425 \text{ g} - 2 \text{ kg } 530 \text{ g} = 895 \text{ g}$

- Sanjay bought 100 kg of wheat for his family for a month. Out of this, the quantity of wheat consumed was 76 kg 450 g. What quantity of wheat was left?

Answer : Sanjay bought wheat for his family for a month = 100 kg

The quantity of wheat consumed = 76 kg 450 g

Quantity of wheat left = $100 \text{ kg} - 76 \text{ kg } 450 \text{ g} = 23 \text{ kg } 55 \text{ g}$

Question 13: Express as l and ml:

1ml = 0.001L

- 2,645 ml = **26.45 l**
- 45,673 ml = **456.73 l**
- 90,003 ml = **900.03 l**
- 56,210 ml = **562.10 l**
- 1,309 ml = **13.09 l**

Question 14: Express as ml:

1 l = 1000 ml

- 83 l = **83000 ml**
- 103 l = **103000 ml**
- 29 l 785 ml = $29000 + 785 =$ **29785 ml**
- 5 l 210 ml = $5000 + 210 =$ **5210 ml**
- 2 l = **2000 ml**

Question 15: Subtract:

- 63 l 156 ml - 34 l 475 ml = **28 l 681 ml**
- 60 l 708 ml - 18 l 619 ml = **42 l 089 ml**
- 8 l 425 ml - 3 l 720 ml = **4 l 705 ml**
- 18 l 636 ml - 12 l 950 ml = **5 l 686 ml**

Question 16: Add:

- 12 l 490 ml + 15 l 540 m = **28 l 030 ml**
- 21 l 260 ml + 18 l 905 ml = **40 l 165 ml**
- 62 l 275 ml + 39 l 890 ml = **102 l 165 ml**
- 5 l 750 ml + 8 l 125 ml = **13 l 875 ml**

Question 17: 12,705 ml = 12 l 705 ml.

Question 18: 36 km = 36000 m = 0.036 cm.

Question 19: 75 mm = 7 cm 5 mm.

Question 20: 12 kg 10 8 g = 12108 g.