

## ATTACHEMENT : WORD PROBLEM SOLUTIONS OF EX-10C

1. Mohit purchased 8 kg 820 g wheat , 15 kg rice and 11 kg 200 g sugar. Find the total mass of the articles.

**Solution,**

$$\begin{aligned}
 \text{mass of wheat purchased} &= 8 \text{ kg } 820 \text{ g} \\
 \text{mass of rice purchased} &= 15 \text{ kg} \\
 \text{mass of sugar purchased} &= 11 \text{ kg } 200 \text{ g} \\
 \text{total mass of the articles purchased} &= 8 \text{ kg } 820 \text{ g} + 15 \text{ kg} + 11 \text{ kg } 200 \text{ g} \\
 &= 35 \text{ kg } 20 \text{ g}
 \end{aligned}$$

$$\begin{array}{r}
 8 \text{ kg } 820 \text{ g} \\
 + 15 \text{ kg } 000 \text{ g} \\
 + 11 \text{ kg } 200 \text{ g} \\
 \hline
 35 \text{ kg } 020 \text{ g}
 \end{array}$$

**Total mass of the articles purchased by Mohit was 35 kg 20 g.**

1. Yogesh purchased 3 l 785 ml petrol , 2 l 900 ml diesel and 5 l kerosene oil. What is the total amount of fuel bought by him?

**Solution,**

$$\begin{aligned}
 \text{Amount of petrol purchased} &= 3 \text{ l } 785 \text{ ml} \\
 \text{Amount of diesel purchased} &= 2 \text{ l } 900 \text{ ml} \\
 \text{Amount of kerosene purchased} &= 5 \text{ l} \\
 \text{Total amount of fuel purchased} &= 3 \text{ l } 785 \text{ ml} + 2 \text{ l } 900 \text{ ml} + 5 \text{ l} \\
 &= 11 \text{ l } 685 \text{ ml}
 \end{aligned}$$

$$\begin{array}{r}
 3 \text{ l } 785 \text{ ml} \\
 + 2 \text{ l } 900 \text{ ml} \\
 + 5 \text{ l } 000 \text{ ml} \\
 \hline
 11 \text{ l } 685 \text{ ml}
 \end{array}$$

**11 l 685 ml of fuel was purchased by Yogesh.**

2. Yamini purchased a tin full of biscuits which weighs 20 kg 575 g. The biscuits alone weigh 19 kg 525 g. What is the weight of the empty tin?

**Solution,**

$$\begin{aligned}
 \text{The weight of biscuits including the tin} &= 20 \text{ kg } 575 \text{ g} \\
 \text{The weight of biscuits alone} &= 19 \text{ kg } 525 \text{ g} \\
 \text{The weight of the empty tin} &= 20 \text{ kg } 575 \text{ g} - 19 \text{ kg } 525 \text{ g} \\
 &= 1 \text{ kg } 50 \text{ g}
 \end{aligned}$$

$$\begin{array}{r}
 20 \text{ kg } 575 \text{ g} \\
 - 19 \text{ kg } 525 \text{ g} \\
 \hline
 = 1 \text{ kg } 050 \text{ g}
 \end{array}$$

**The empty tin weighed 1 kg 50 g**

3. Madhu purchased 12 m 915 m cloth. She used 4 m to make her salwar kameez. 2 m to make a shirt and 1 m 20 cm to make a pair of pants. Find the total length of the cloth left with Madhu.

**Solution,**

$$\begin{aligned}
 \text{length of cloth purchased} &= 12 \text{ m } 000 \text{ cm} \\
 \text{length of cloth used for making salwar kameez} &= 4 \text{ m } 00 \text{ cm} \\
 \text{length of cloth used for making a shirt} &= 2 \text{ m } 00 \text{ cm} \\
 \text{length of cloth used for making pair of pants} &= 1 \text{ m } 20 \text{ cm} \\
 \text{cloth used for making the dresses} &= 4 \text{ m } 00 \text{ cm} + 2 \text{ m } 00 \text{ cm} + 1 \text{ m } 20 \text{ cm} \\
 &= 7 \text{ m } 20 \text{ cm} \\
 \text{length of cloth left with Madhu} &= 12 \text{ m } 00 \text{ cm} - 7 \text{ m } 20 \text{ cm} \\
 &= 4 \text{ m } 80 \text{ cm}
 \end{aligned}$$

$$\begin{array}{r}
 4 \text{ m } 00 \text{ cm} \\
 + 2 \text{ m } 00 \text{ cm} \\
 + 1 \text{ m } 20 \text{ cm} \\
 \hline
 7 \text{ m } 20 \text{ cm} \\
 \\
 12 \text{ m } 00 \text{ cm} \\
 - 7 \text{ m } 20 \text{ cm} \\
 \hline
 4 \text{ m } 80 \text{ cm}
 \end{array}$$

**4 m 80 cm of cloth is left with Madhu.**

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4. Lekha travelled 16 km 215 m by car 10 km by bus and 2 km 915 on foot. Find the total distance travelled by her.

**Solution,**

<b>Distance</b> travelled by car	= 16 km 215 m	16 km 215 m
<b>Distance</b> travelled by bus	= 10 km	+ 10 km 000 m
<b>Distance</b> travelled on foot	= 2 km 915	<u>+ 2 km 915 m</u>
<b>Total Distance</b> travelled by Lekha	= 16 km 215 m + 10 km + 2 km 915 m	29 km 130 m

The total distance Lekha travelled by Lekha was 29 km 130 m.

5. Radha was going to Agra 200 km away. She covered 175 km 212 m by train, 19 km by bus and rest on foot. Find the distance she covered on foot.

**Solution,**

<b>The total distance covered</b>	= Distance of Agra	
	= 200 km	
<b>Distance covered by train</b>	= 175 km 212 m	
<b>Distance covered by bus</b>	= 19 km	
<b>Distance covered on foot</b>	= ?	175 km 212 m
<b>Distance covered by train and bus</b>	= 175 km 212 m + 19 km	<u>+ 19 km 000 m</u>
	= 194 km 212 m	194 km 212 m
<b>Distance covered on foot</b>	= Total Distance covered - Distance covered by train and bus	
	= 200 km - 194 km 212 m	200 km 000 m
	= 5 km 788 m	<u>- 194 km 212 m</u>
<b>Radha covered 5 km 788 m on foot.</b>		5 km 788 m

6. Priyanka went to her cousin's house which was 40 km 500 m away from her home. She covered 26 km 250 m by car, 13 km 740 m by bus and rest by rickshaw. Find the total distance covered by rickshaw.

**Solution,**

<b>The total distance covered</b>	= Distance of cousin's house	
	= 40 km 500 m	
<b>Distance covered by car</b>	= 26 km 250 m	
<b>Distance covered by bus</b>	= 13 km 740 m	
<b>Distance covered by rickshaw</b>	= ?	26 km 250 m
<b>Distance covered by car and bus</b>	= 26 km 250 m + 13 km 740 m	<u>+ 13 km 740 m</u>
	= 39 km 990 m	39 km 990 m
<b>Distance covered by rickshaw</b>	= Total Distance covered - Distance covered by car and bus	
	= 40 km 500 m - 39 km 990 m	40 km 500 m
	= 610 m	<u>- 39 km 990 m</u>
<b>Radha covered 610 m by rickshaw.</b>		00 km 610 m