



**Practice**

- |                            |  |
|----------------------------|--|
| 1) 200 cm = <u>2</u> m     | 5) 485 cm = <u>4</u> m <u>85</u> cm      |
| 2) 500 cm = <u>    </u> m  | 6) 775 cm = <u>    </u> m <u>    </u> cm |
| 3) 5700 cm = <u>    </u> m | 7) 970 cm = <u>    </u> m <u>    </u> cm |
| 4) 4800 cm = <u>    </u> m | 8) 706 cm = <u>7</u> m <u>6</u> cm       |

**Addition**

<p>12m 75cm + 58m 56cm</p> <table style="margin-left: 40px;"> <tr><td>m</td><td>cm</td></tr> <tr><td>12</td><td>75</td></tr> <tr><td>+ 58</td><td>56</td></tr> <tr><td colspan="2"><hr/></td></tr> <tr><td>71</td><td>31</td></tr> <tr><td colspan="2"><hr/></td></tr> </table> <p>12m 75cm + 58m 56cm = <b>71m 31cm</b></p>	m	cm	12	75	+ 58	56	<hr/>		71	31	<hr/>		<p><b>Step 1</b></p> <p>Add cm</p> <table style="margin-left: 40px;"> <tr><td>75</td></tr> <tr><td>+ 56</td></tr> <tr><td><hr/></td></tr> <tr><td>131cm = 1m 31cm</td></tr> </table>	75	+ 56	<hr/>	131cm = 1m 31cm	<p><b>Step 2</b></p> <p>Add m</p> <table style="margin-left: 40px;"> <tr><td>1</td></tr> <tr><td>12</td></tr> <tr><td>+ 58</td></tr> <tr><td><hr/></td></tr> <tr><td>71 m</td></tr> </table>	1	12	+ 58	<hr/>	71 m
m	cm																						
12	75																						
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71 m																							



**Practice**

**Add**

- |  |    |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |
|--|----|----|----|----|------|----|-------|--|-------|--|--|---|----|----|----|------|----|-------|--|-------|--|--|---|----|----|----|------|----|-------|--|-------|--|--|---|----|----|----|------|----|-------|--|-------|--|
| <table style="width: 100%;"> <tr><td>m</td><td>cm</td></tr> <tr><td>92</td><td>19</td></tr> <tr><td>+ 83</td><td>42</td></tr> <tr><td colspan="2"><hr/></td></tr> <tr><td colspan="2"><hr/></td></tr> </table> | m  | cm | 92 | 19 | + 83 | 42 | <hr/> |  | <hr/> |  | <table style="width: 100%;"> <tr><td>m</td><td>cm</td></tr> <tr><td>22</td><td>65</td></tr> <tr><td>+ 97</td><td>48</td></tr> <tr><td colspan="2"><hr/></td></tr> <tr><td colspan="2"><hr/></td></tr> </table> | m | cm | 22 | 65 | + 97 | 48 | <hr/> |  | <hr/> |  | <table style="width: 100%;"> <tr><td>m</td><td>cm</td></tr> <tr><td>25</td><td>60</td></tr> <tr><td>+ 56</td><td>35</td></tr> <tr><td colspan="2"><hr/></td></tr> <tr><td colspan="2"><hr/></td></tr> </table> | m | cm | 25 | 60 | + 56 | 35 | <hr/> |  | <hr/> |  | <table style="width: 100%;"> <tr><td>m</td><td>cm</td></tr> <tr><td>43</td><td>08</td></tr> <tr><td>+ 27</td><td>64</td></tr> <tr><td colspan="2"><hr/></td></tr> <tr><td colspan="2"><hr/></td></tr> </table> | m | cm | 43 | 08 | + 27 | 64 | <hr/> |  | <hr/> |  |
| m  | cm |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |
| 92   | 19 |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |
| + 83   | 42 |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |
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| m  | cm |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |
| 22   | 65 |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |
| + 97   | 48 |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |
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| m  | cm |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |
| 25   | 60 |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |
| + 56   | 35 |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |
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| m  | cm |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |
| 43   | 08 |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |
| + 27   | 64 |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |  |   |    |    |    |      |    |       |  |       |  |
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### Life related problems

Reena bought 15m 85cm of red ribbon and 28m 50cm of green ribbon to decorate the hall. What is the total length of the ribbon.

	m	cm
Length of the red ribbon =	15	85
Length of the green ribbon =	+ 28	50
Total length of the ribbon =	44	35



Total length of the ribbon is 44m 35cm



#### Practice

Ashok sold 20m 95cm of cloth to one customer and 11m 35cm to another customer. Find the total length of the cloth.

### Subtraction without conversion

$$95\text{m } 27\text{cm} - 46\text{m } 18\text{cm}$$

	m	cm
	95	27
-	46	18
	49	09

$$95\text{m } 27\text{cm} - 46\text{m } 18\text{cm} = 49\text{m } 9\text{cm}$$

#### Step 1

subtract cm

27	
-	18
9	

#### Step 2

subtract m

95	
-	46
49	



#### Practice

m	cm
94	84
-	44 12

m	cm
85	44
-	68 29

m	cm
95	75
-	57 36

m	cm
32	28
-	12 09

### Subtraction with conversion

$$84\text{m } 85\text{cm} - 68\text{m } 96\text{cm}$$

96 cm cannot be subtracted from 85 cm. So take 1 m from 84 m.

$$\begin{array}{r} \text{m} \quad \text{cm} \\ 84 \quad 85 \\ - 68 \quad 96 \\ \hline 15 \quad 89 \end{array}$$

**Step 1**

$$\begin{array}{r} \text{subtract cm} \\ 85 \quad 185 \\ - 96 \quad - 96 \\ \hline \quad 89 \end{array}$$

**Step 2**

$$\begin{array}{r} \text{subtract m} \\ 83 \\ - 68 \\ \hline 15 \end{array}$$

$$84\text{m } 85\text{cm} - 68\text{m } 96\text{cm} = 15\text{m } 89\text{cm}$$



### Practice

#### Subtraction

$$\begin{array}{r} \text{m} \quad \text{cm} \\ 93 \quad 29 \\ - 32 \quad 65 \\ \hline \end{array}$$

$$\begin{array}{r} \text{m} \quad \text{cm} \\ 85 \quad 21 \\ - 47 \quad 75 \\ \hline \end{array}$$

$$\begin{array}{r} \text{m} \quad \text{cm} \\ 98 \quad 46 \\ - 78 \quad 89 \\ \hline \end{array}$$

$$\begin{array}{r} \text{m} \quad \text{cm} \\ 56 \quad 18 \\ - 28 \quad 37 \\ \hline \end{array}$$

#### Life related problems

Dinesh bought 80m 50cm of wire to fence his garden. He used only 65m 75cm of wire. Find the remaining length of the wire.

$$\begin{array}{r} \text{m} \quad \text{cm} \\ \text{Total length of the wire} = 80 \quad 50 \\ \text{Length of the wire used} = - 65 \quad 75 \\ \hline = 14 \quad 75 \end{array}$$

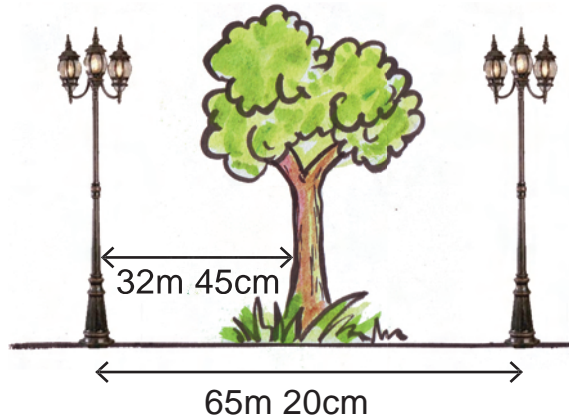


Remaining length of the wire is 14m 75cm



**Practice**

- 1) Kannan sold 48m 87cm of curtain cloth from the roll of 95m 75cm. How much is left over?



- 2) Distance between two poles is 65m 20cm. In between the poles there is a tree which is 32m 45cm away from the first pole. Find the distance between the tree and the second pole.

**MATHEMATICS**

One metre is about the distance from one hand to other when your arms are stretched out



**PROJECT**

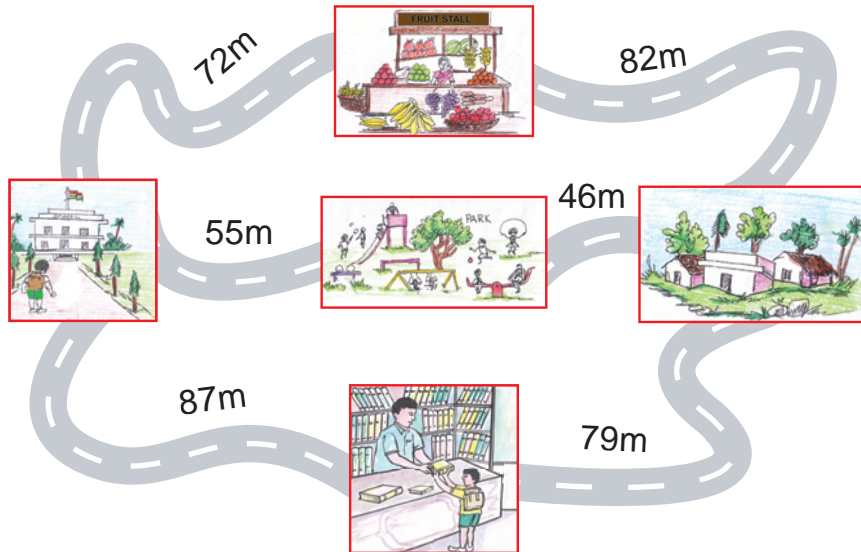
**Estimate the following distances.**



- 1) Distance between your classroom and the next classroom.
- 2) Distance between your classroom and play ground.
- 3) Distance between the two poles in a kho - kho ground.
- 4) Distance between two neighbouring trees in your school.

Lab activity

Look at the route map. The various distance are marked in the figure.



Vijay goes to school by walk. While going to school he buys notebooks from the bookstall.

- 1) Distance between Vijay's house and the bookstall is \_\_\_\_\_
- 2) From the bookstall he goes to the school. Distance between the bookstall and the school is \_\_\_\_\_
- 3) Total distance covered by him from his house to school is \_\_\_\_\_
- 4) After school he goes to the fruit stall and buys fruits, then he goes to his house. Distance covered from school to house is \_\_\_\_\_
- 5) After reaching home he goes to the park and comes back home. Total distance covered by him is \_\_\_\_\_
- 6) In case if he comes directly from school to his house through park, then the distance is \_\_\_\_\_

**REVISION**



Fill in the blanks

- 1) 1300 cm = \_\_\_\_\_ m
- 2) 5800 cm = \_\_\_\_\_ m
- 3) 563 cm = \_\_\_\_\_ m \_\_\_\_\_ cm
- 4) 1865 cm = \_\_\_\_\_ m \_\_\_\_\_ cm
- 5) 809 cm = \_\_\_\_\_ m \_\_\_\_\_ cm
- 6) 7m 25cm = \_\_\_\_\_ cm
- 7) 4m 60cm = \_\_\_\_\_ cm
- 8) 8m 15cm = \_\_\_\_\_ cm

Do the sums

	m	cm	
	80	20	
+	35	65	

	m	cm	
	77	77	
+	38	60	

	m	cm	
	85	85	
+	76	42	

	m	cm	
	62	80	
-	35	65	

	m	cm	
	97	07	
-	38	52	

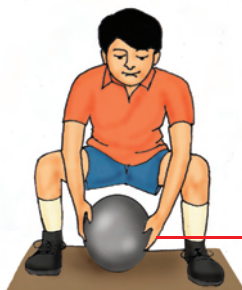
	m	cm	
	35	55	
-	22	68	

- 7) Ravi purchased 1m 35cm shirt bit for him and and 1m 65cm shirt bit for his brother. Find the total length of the shirt bits.
- 8) An electrician had 63m 39cm of wire. He used 36m 48cm. How much length of wire was left with him?

# 5

## WEIGHING OBJECTS

More weight

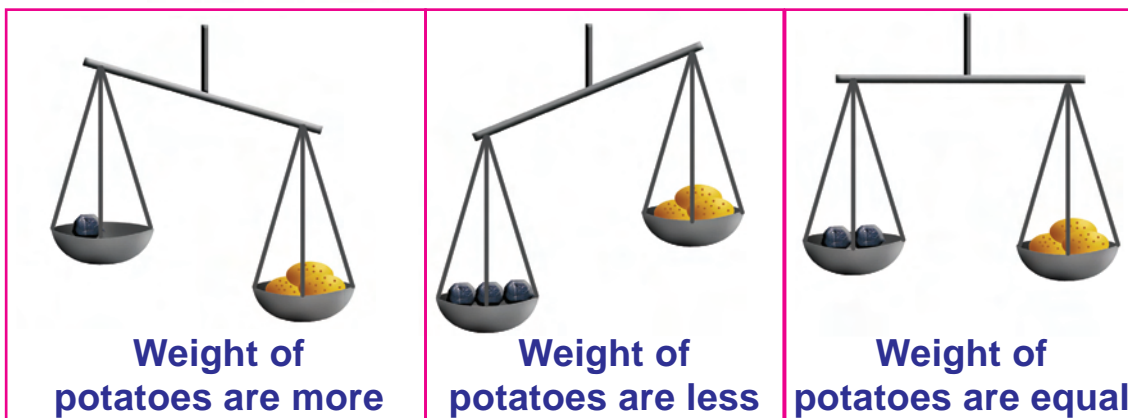


Iron ball

Less weight



Basket ball



Kilogram can be written as 'kg'

Weighing stones and weight of objects in kilogram



MATHEMATICS

### Various weighing machines



Weight of tomatoes = 2 kg



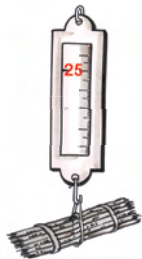
Weight of grapes = \_\_\_ kg



My weight = \_\_\_ kg



Weight of sugar = \_\_\_ kg






Weight of firewood = \_\_\_ kg

Collect the pictures of different types of weighing machines and use it to prepare an album.



## Addition in kilogram




Raghu	Kumar	Anandhan	Weight of	
			Raghu	= 32 kg
32 kg	30 kg	31 kg	Kumar	= 30 kg
			Anandhan	= + 31 kg
				<u>93 kg</u>

Total weight of them is 93 kg






### Practice

1) Find the total weight of vegetables

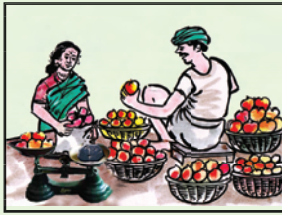
			Weight of	
15 kg	10 kg	7 kg	tomatoes	= 15 kg
			potatoes	= 10 kg
			onions	= + 7 kg
			Total weight of vegetables	= <u>          </u>

2) Find the total weight of cereals.

	Green gram		Weight of	
Wheat		Black gram	wheat	= 10 kg
	75kg		green gram	= 75 kg
10 kg		63kg	black gram	= + 63 kg
			Total weight	= <u>          </u>

3) Weight of rice 68 kg, sugar 55 kg and ragi 48 kg.  
Find the total weight.

### Subtraction in kilogram



$$\begin{array}{r}
 \text{Weight of mangoes in the shop} = 25 \text{ kg} \\
 \text{Weight of mangoes sold} = - 17 \text{ kg} \\
 \hline
 8 \text{ kg}
 \end{array}$$

Remaining weight of mangoes in the shop = **8 kg**

Initial weight of Ice bar is 28 kg. After 15 minutes weight of Ice bar is 16 kg.



$$\begin{array}{r}
 28 \text{ kg} \\
 - 16 \text{ kg} \\
 \hline
 12 \text{ kg}
 \end{array}$$

Weight of melted Ice = **12 kg**



### Practice

1) Weight of  
Laddu = 28 kg  
Sold = -16 kg



2) Weight of  
Halwa = 43 kg  
Sold = - 18 kg

Remaining laddu = \_\_\_\_\_ kg

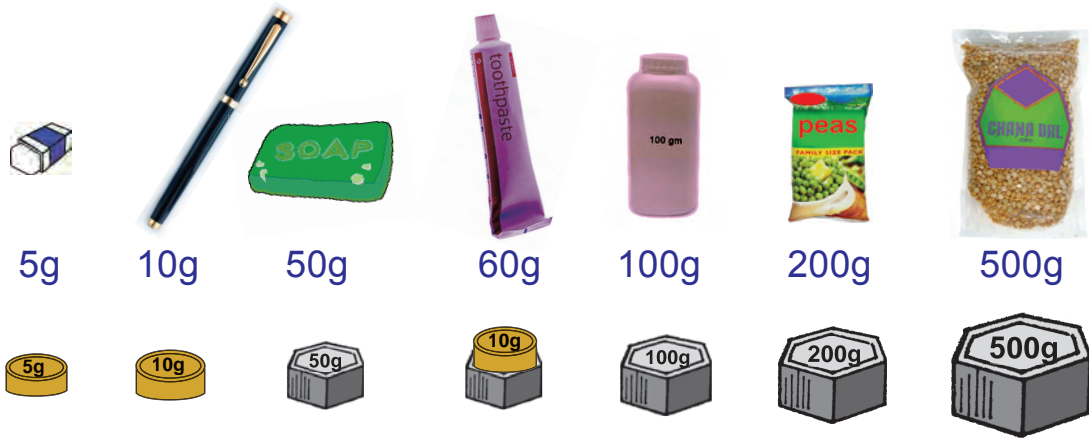
Remaining halwa = \_\_\_\_\_ kg

3) Weight of  
Clay = 25 kg  
Horses = -19 kg



Weight of unused clay = \_\_\_\_\_ kg

## Weighing stones and weight of objects in gram



Tea powder, coffee powder, gold, pepper, etc., are measured by grams

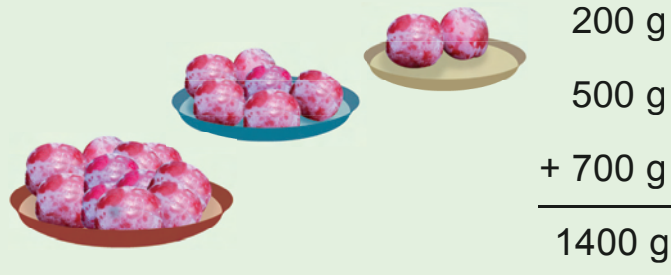
gram can be written as 'g'

1 Kilogram = 1000 gram

$$\begin{aligned}
 & 500\text{g} + 500\text{g} = 1000\text{g} \\
 & 200\text{g} + 200\text{g} + 200\text{g} + 200\text{g} + 200\text{g} = 1000\text{g} \\
 & 100\text{g} + 100\text{g} + 100\text{g} + 100\text{g} + 100\text{g} + 100\text{g} + 100\text{g} + 100\text{g} + 100\text{g} + 100\text{g} = 1000\text{g}
 \end{aligned}$$

## Addition in gram

Let us find the total weight of the plums



$$\begin{array}{r}
 200\text{ g} \\
 500\text{ g} \\
 + 700\text{ g} \\
 \hline
 1400\text{ g}
 \end{array}$$

$$\begin{aligned}
 1\text{ kg} &= 1000\text{g} \\
 1400\text{ g} &= 1000\text{ g} + 400\text{ g} \\
 &= 1\text{ kg} + 400\text{ g} \\
 &= 1\text{ kg } 400\text{ g}
 \end{aligned}$$

Total weight of plums = 1kg 400g



**Practice**

1) Find the total weight of grapes.

150 g
350 g
+ 850 g
<hr/>
<hr/>

Total weight of grapes = \_\_\_\_\_ g

2) 
$$\begin{array}{r} 250 \text{ g} \\ 345 \text{ g} \\ + 657 \text{ g} \\ \hline \\ \hline \end{array}$$

3) 
$$\begin{array}{r} 247 \text{ g} \\ 199 \text{ g} \\ + 238 \text{ g} \\ \hline \\ \hline \end{array}$$

4) 
$$\begin{array}{r} 645 \text{ g} \\ 561 \text{ g} \\ + 359 \text{ g} \\ \hline \\ \hline \end{array}$$

5) 
$$\begin{array}{r} 894 \text{ g} \\ 467 \text{ g} \\ + 500 \text{ g} \\ \hline \\ \hline \end{array}$$

MATHEMATICS

**Subtraction in gram**

Let us calculate weight of mango.



Weight of yellow bag	=	1650 g
red bag	= -	1350 g
		<hr/>
		300 g
		<hr/>

Weight of mango is 300 g



**Practice**

1) 
$$\begin{array}{r} 756 \text{ g} \\ - 435 \text{ g} \\ \hline \\ \hline \end{array}$$

2) 
$$\begin{array}{r} 539 \text{ g} \\ - 49 \text{ g} \\ \hline \\ \hline \end{array}$$

3) 
$$\begin{array}{r} 465 \text{ g} \\ - 309 \text{ g} \\ \hline \\ \hline \end{array}$$

4) 
$$\begin{array}{r} 647 \text{ g} \\ - 35 \text{ g} \\ \hline \\ \hline \end{array}$$

### Addition in kilogram and gram

Find the total weight of the following things.

Things	Weight	
	kg	g
Television	20	500
Chair	5	350
Bicycle	30	100
<b>Total</b>	<b>55</b>	<b>950</b>

#### Steps

- Add the grams
- Add the kilograms

Total weight of things = **55 kg 950 g**



#### Practice

1) Find the total weight of papayas.



1kg 255g



2kg 350g



3kg 300g

$$\begin{array}{r}
 \text{kg} \quad \text{g} \\
 1 \quad 255 \\
 2 \quad 350 \\
 + \quad 3 \quad 300 \\
 \hline
 \hline
 \end{array}$$

Total weight of papaya is \_\_\_\_\_ kg \_\_\_\_\_ g

2) Find the total weight of vegetables



17kg 250g



13kg 500g



25kg 105g

$$\begin{array}{r}
 \text{kg} \quad \text{g} \\
 17 \quad 250 \\
 13 \quad 500 \\
 + \quad 25 \quad 105 \\
 \hline
 \hline
 \end{array}$$

Total weight of vegetables is \_\_\_\_\_ kg \_\_\_\_\_ g

3) kg g

77 355

89 090

+ 35 155

\_\_\_\_\_

\_\_\_\_\_

4) kg g

44 363

13 147

+ 15 289

\_\_\_\_\_

\_\_\_\_\_

5) kg g

88 154

16 246

+ 26 343

\_\_\_\_\_

\_\_\_\_\_

## Subtraction in kilogram and gram

Let us find the weight of honey



5kg 950g



4kg 895g

Weight of bee hive	=	kg	g
		5	950
Weight of honey	=	-	4 895
		1	055

Weight of honey wax is **1kg 55g**



### Practice

1)



13kg 750g



11kg 255g

Weight of		kg	g
purple paint	=	13	750
paint used	=	-	11 255

Remaining paint is \_\_\_\_\_ kg \_\_\_\_\_ g

2) Find the difference between the weight of oranges and jack fruit.



45kg 258g



18kg 163g

Weight of		kg	g
oranges	=	45	258
jack fruit	=	-	18 163

Difference in weight = \_\_\_\_\_ kg \_\_\_\_\_ g

3)      kg    g

25	456
-	14 369

4)      kg    g

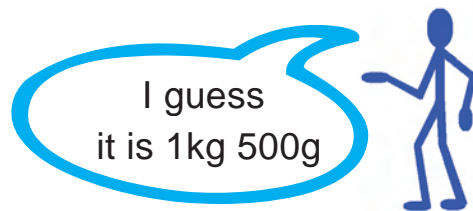
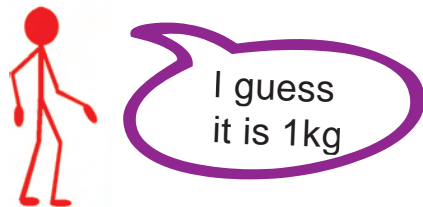
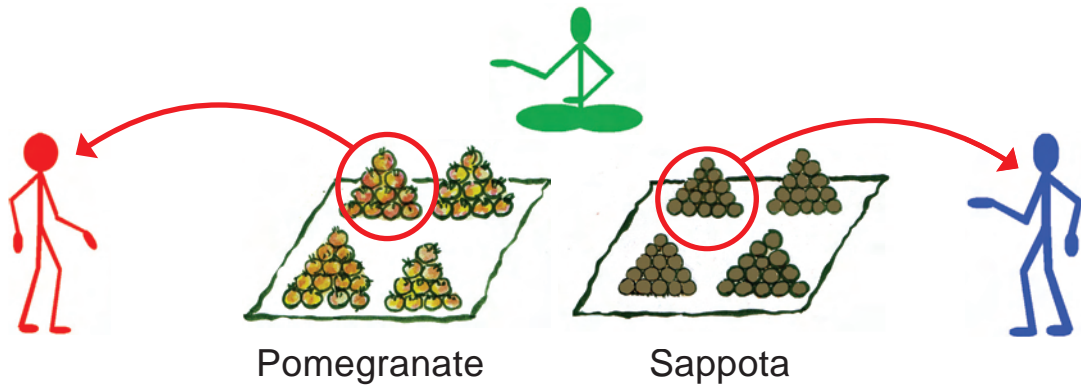
37	576
-	25 455

5)      kg    g

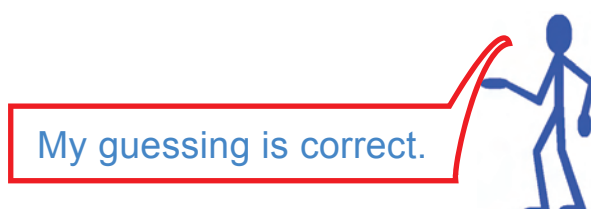
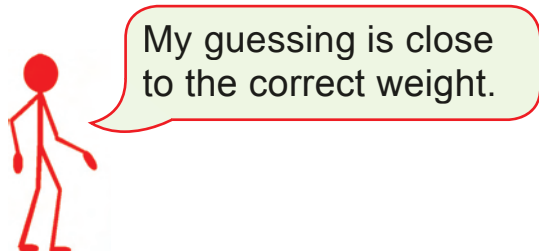
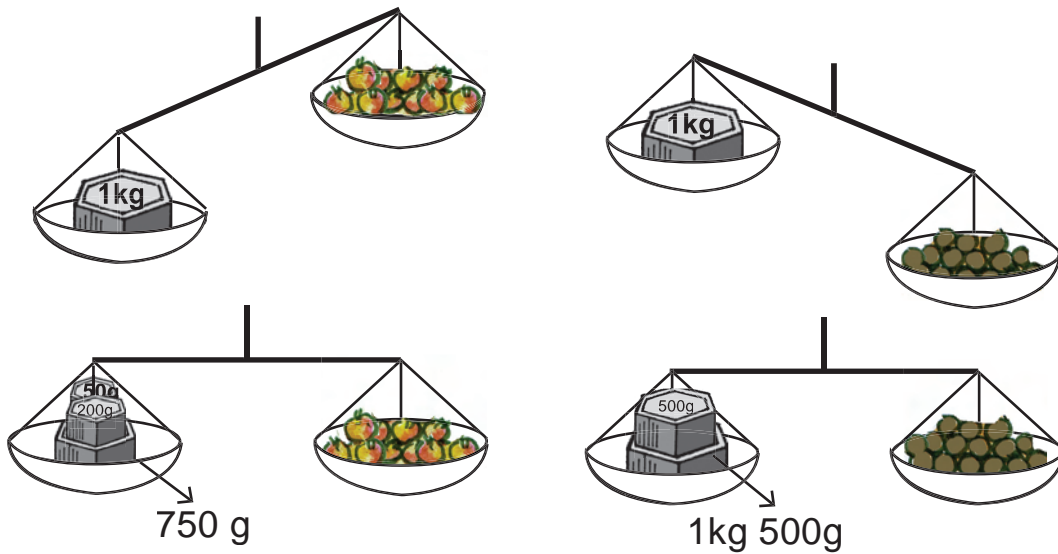
54	342
-	37 523

## Guessing weight

Shall we check our guessing, by weighing !



Both are verifying their guessing.





Estimate the weight of objects.

Maths Book  
Pencil eraser  
Bucket  
Crayon  
School bag

200g  
5g  
130g  
75g  
150g



**Practice**

In a grocery shop the following items are purchased.

Name of the customer	Red chilli		Coriander		Turmeric		Cumin		Pepper	
	kg	g	kg	g	kg	g	kg	g	kg	g
Meena	2	175	4	150	300		150		125	
Radha		150	1	125	150		50		50	
Kumaresan	2	000	3	200	200		250		300	

Find the quantity of groceries bought by each customer.



**Lab activity**

**Guess and verify the weights.**

S. No.	Vegetables	Guessing weight	Correct weight
1.			
2.			
3.			
4.			
5.			



**REVISION**



**Fill in the blanks.**

- 1) 8500g = \_\_\_\_\_ kg + \_\_\_\_\_ g
- 2) 7250g = \_\_\_\_\_ kg + \_\_\_\_\_ g
- 3) 6kg 550g = \_\_\_\_\_ kg + \_\_\_\_\_ g
- 4) 13kg 650g = \_\_\_\_\_ kg + \_\_\_\_\_ g

**Do the sums.**

1)

kg	g
10	080
+ 20	355
_____	
_____	

2)

kg	g
29	054
+ 31	453
_____	
_____	

3)

kg	g
31	423
47	315
+ 54	154
_____	
_____	

4)

kg	g
75	859
- 39	676
_____	
_____	

5)

kg	g
91	759
- 77	597
_____	
_____	

6)

kg	g
82	235
- 17	198
_____	
_____	

- 7) One package of sweet is 5kg 600g and another package of sweet is 2kg 350g. Find the total weight.

- 8) The quantity of red chillies in two baskets are 25kg 550g and 10kg 350g respectively. Find the total weight of red chillies.
- 9) First bag contains 52kg 600g of wheat and second bag contains 35kg 250g of wheat. How much more weight of wheat contains in the first bag than second bag?
- 10) A sandalwood weighs 18kg 250g. A part of it weighing 12kg 100g is cut off from it. What is the weight of the remaining piece?