3 ADDITION AND SUBTRACTION

MATHEMATICS

Addition

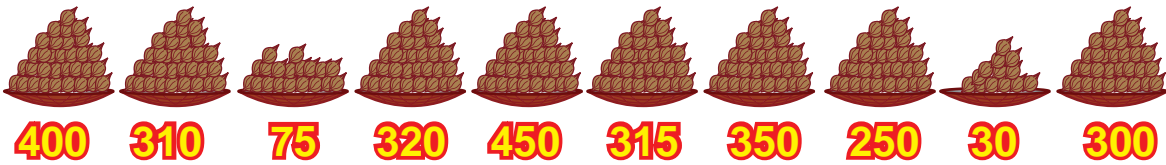| 400 | 310 | 75 | 320 | 450 | 315 | 350 | 250 | 30 | 300 |

Four vendors went to a coconut grove to buy coconuts. Each one needed 700 coconuts. Help them to select the heaps.

First vendor	Second vendor	Third vendor	Fourth vendor
350 320 + 30	400 + 300		
700	700	700	700

Write the missing numbers in the magic squares for the given total.

Total 45

16	11	18
17	15	13
12	19	14

Total 210

80	30	
90	70	50
	110	60

Total 165

65	15	
75	55	35
	95	

Fill in the boxes.

$0 + 1 = 1$ $2 + 4 = 6$ $4 + 5 = 9 = 5 + \boxed{}$

$1 + 0 = \boxed{}$ $4 + 2 = \boxed{}$ $5 + 3 = 8 = \boxed{} + 5$

$2 + 0 = 2$ $0 + 0 = 0$ $2 + 6 = 8 = 6 + \boxed{}$

$0 + 2 = \boxed{}$ $0 + 3 = \boxed{}$ $7 + 2 = 9 = \boxed{} + 7$

> The sum of any number and zero is the number itself.
> The sum of two numbers does not change even if we change the order of the numbers.

Practice

1)
H	T	O
3	2	4
5	7	5

+

2)
H	T	O
6	0	0
2	3	2

+

3)
H	T	O
5	3	6
3	0	1

+

4)
H	T	O
7	0	2
2	1	4

+

Addition without carrying

1) A library has 3242 story books and 435 rhymes books. Find the total number of books.

Solution:

To find the total number of books, we have to add the number of story books and rhymes books.

	Th	H	T	O	
Number of story books =	3	2	4	2	$= 3000 + 200 + 40 + 2$
Number of rhymes books = +		4	3	5	$= 400 + 30 + 5$
Total number of books =	3	6	7	7	$= 3000 + 600 + 70 + 7$

Total number of books in the library = 3677

Another method:

Th	H	T	O
3	2	4	2
	4	3	5
3	6	7	7

+

Steps
* Add ones
* Add tens
* Add hundreds
* Add thousands

MATHEMATICS

2) A factory produced 1154 bags of fertilizer on the first day and 2832 bags on the second day. Find the total number of bags of fertilizer.
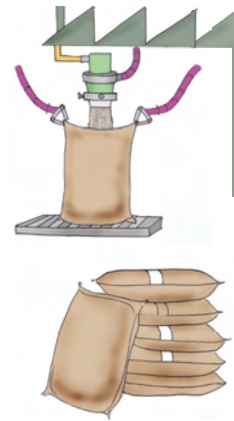
Solution:

Fertilizer produced on first day = 1154
Fertilizer produced on second day = + 2832
Total number of bags of fertilizer = 3986

3986 bags of fertilizer are produced.

Practice

1)
Th	H	T	O
2	4	6	3
+ 4	2	3	0

2)
Th	H	T	O
2	2	0	4
+ 3	4	8	5

3)
Th	H	T	O
4	5	0	2
+ 5	3	0	4

4)
Th	H	T	O
8	4	1	0
+ 1	0	6	7

5)
Th	H	T	O
2	0	0	0
+ 4	0	0	0

6)
Th	H	T	O
5	1	2	1
+ 2	3	7	4

7) In a factory 3850 persons worked in the first shift and 3106 persons worked in the second shift. Find the total number of persons.

8) In a function 2274 people had breakfast and 3015 people had lunch. Find the total number of people in the function.

Recall and write

10 ones = 1 ten   36 tens = 3 hundreds 6 tens
70 ones = _____   29 tens = _____
25 ones = 2 tens 5 ones   10 hundreds = 1 thousand
43 ones = _____   40 hundreds = _____
10 tens = 1 hundred   78 hundreds = 7 thousands 8 hundreds
50 tens = _____   64 hundreds = _____

Addition with carrying

Balaji and Ramji bought two mobiles. The cost of mobiles are ₹ 2495 and ₹ 1628 respectively. Find the total cost of the mobiles.

Solution:

Cost of Balaji's mobile = ₹ 2495
Cost of Ramji's mobile = ₹ 1628
To find out the total cost, add the cost of the mobiles.

Th	H	T	O
		①	
2	4	9	5
+ 1	6	2	8
			3

Step 1

Add the ones

5 ones + 8 ones = 13 ones
13 ones = 1 ten 3 ones
Write 3 under the ones place
Carry ① to tens place

Th	H	T	O
	①	①	
2	4	9	5
+ 1	6	2	8
		2	3

Step 2

Add the tens

① ten + 9 tens + 2 tens = 12 tens
12 tens = 1 hundred 2 tens
Write 2 under the tens place
Carry ① to hundreds place

Th	H	T	O
①	①	①	
2	4	9	5
+ 1	6	2	8
	1	2	3

Step 3

Add the hundreds

① hundred + 4 hundreds + 6 hundreds = 11 hundreds
11 hundreds = 1 thousand 1 hundred
Write 1 under the hundreds place
Carry ① to thousands place

Th	H	T	O
①	①	①	
2	4	9	5
+ 1	6	2	8
4	1	2	3

Step 4

Add the thousands

① thousand + 2 thousands + 1 thousand = 4 thousands
Write 4 under the thousands place

Total cost of 2 mobiles is ₹ 4123

1)

Th	H	T	O
4	3	2	7
2	8	6	2

2)

Th	H	T	O
2	7	4	5
5	4	6	3

3)

Th	H	T	O
3	5	4	6
4	6	8	7

4)

Th	H	T	O
5	3	6	9
3	2	4	3

5)

Th	H	T	O
4	2	5	9
3	8	3	5

6)

Th	H	T	O
3	0	9	4
4	6	3	8

7) In a circus 2625 persons visited the noon show, and 3768 persons visited the night show. Find the total number of persons.

8) In a mango grove, 1243 malgova, 2132 sendura and 2644 neelam mangoes were plucked from mango trees. Find the total number of mangoes plucked.

Lab activity

1) Fill up the addition chain
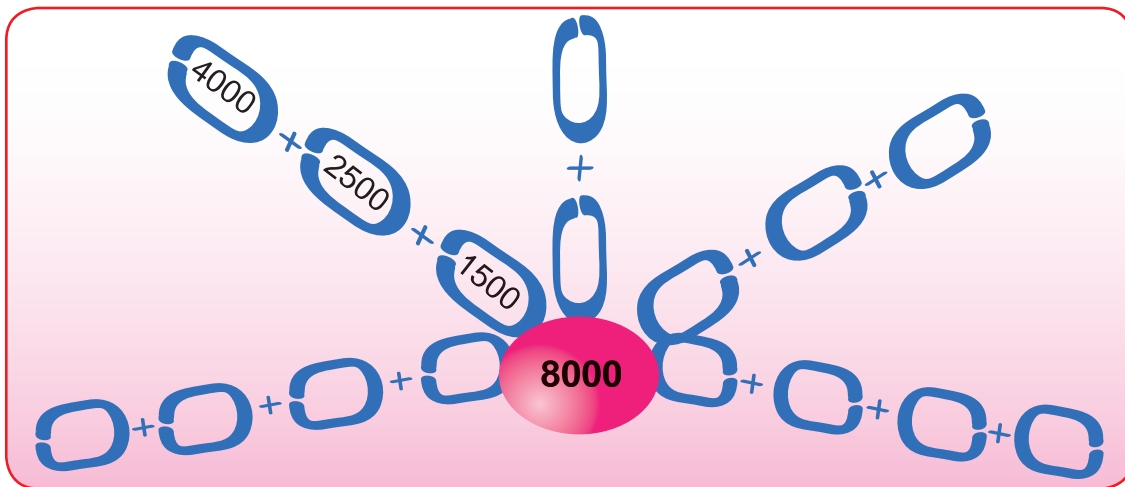
2) Take two sets of number cards from 0 to 9. Using the number cards form eight 4 digit numbers. Take two numbers at a time and add.

Subtraction

Relation between addition and subtraction.

623 **+** 253 **=** 876

623 **=** 253

253 **=** 623
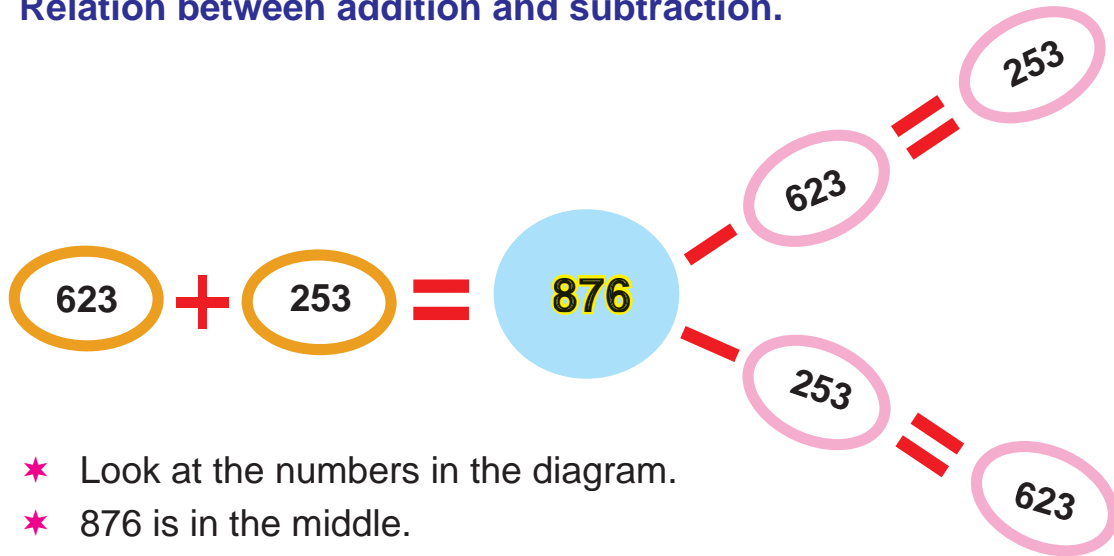
★ Look at the numbers in the diagram.

★ 876 is in the middle.

★ 876 is written as the addition of two numbers.

★ Every addition has two subtractions.

Write the missing numbers by subtraction.

451   516

605   623

876

500   175

251   364

253 →

$$\begin{array}{r} 876 \\ -\ 623 \\ \hline 253 \\ \hline \end{array}$$
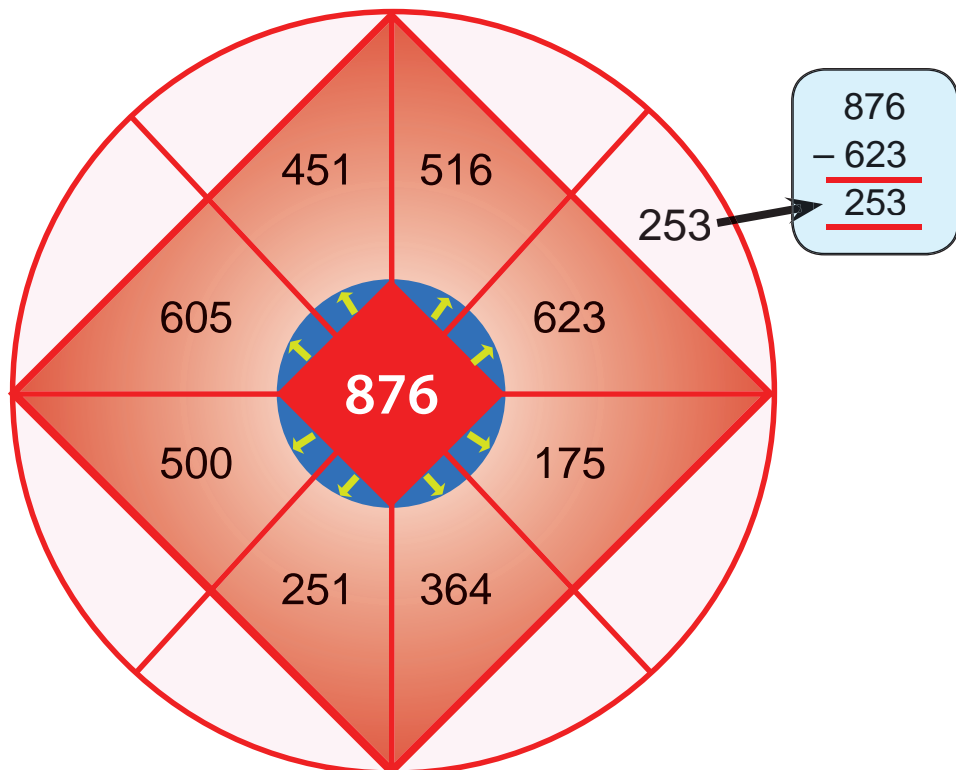
Subtraction without grouping

Bharath purchased an aircooler and a water heater for his house. The total cost is ₹ 8965. Find the cost of water heater, if the cost of the air cooler is ₹ 4650.

Solution:

Total cost of the air cooler and the water heater = ₹ 8965

Cost of the air cooler = ₹ 4650

The cost of water heater = ₹ 8965 – ₹ 4650

Th	H	T	O
8	9	6	5
– 4	6	5	0
			5

Step 1

Subtract the ones

5 ones – 0 ones = 5 ones

Write 5 in the ones place.

Th	H	T	O
8	9	6	5
– 4	6	5	0
		1	5

Step 2

Subtract the tens

6 tens – 5 tens = 1 ten.

Write 1 in the tens place.

Th	H	T	O
8	9	6	5
– 4	6	5	0
	3	1	5

Step 3

Subtract the hundreds

9 hundreds – 6 hundreds = 3 hundreds.

Write 3 in the hundreds place.

Th	H	T	O
8	9	6	5
– 4	6	5	0
4	3	1	5

Step 4

Subtract the thousands

8 thousands – 4 thousands = 4 thousands.

Write 4 in the thousands place.

The cost of water heater is ₹ 4315.

MATHEMATICS

1) 9865
    − 2334
    _____
    _____

2) 7650
    − 2310
    _____
    _____

3) 4030
    − 2010
    _____
    _____

4) 8897
    − 3405
    _____
    _____

5) 8743
    − 1212
    _____
    _____

6) 7329
    − 2018
    _____
    _____

7) 9000
    − 7000
    _____
    _____

8) 5678
    − 2400
    _____
    _____

9) Population of a village is 8625. Of them 4314 are working in fields. Find the remaining population.

10) Number of vehicles parked in a shed is 2448. If 1236 vehicles are taken out, calculate the vehicles left in the shed.

11) A car manufacturing company produced 2680 cars. 1570 cars are sold. How many cars are left in the company?

MATHEMATICS
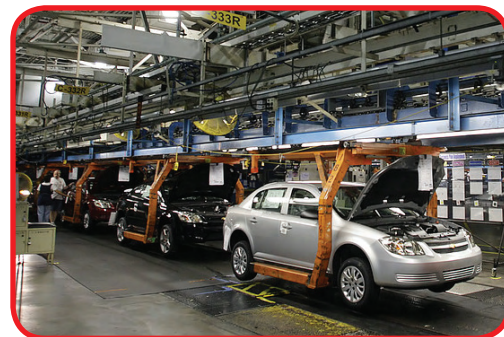
Subtraction with grouping

There were 8260 tea packets in a van. Of these 6984 tea packets were sold out. Find the remaining tea packets.

Solution:

Tea packets in the van   = 8260
Sold tea packets   = 6984
Remaining tea packets   = 8260 – 6984

Th	H	T	O
		⑤	⑩
8	2	6̶	0̶
– 6	9	8	4
			6

Step 1

Subtract the ones
4 cannot be subtracted from 0
Take 1 ten from 6 tens, (we get 1 ten =10 ones)
⑩ ones – 4 ones = 6 ones

Th	H	T	O
	①	⑮	⑩
8	2̶	6̶	0̶
– 6	9	8	4
		7	6

Step 2

Subtract the tens
8 cannot be subtracted from 5
Take 1hundred from 2 hundreds,
(1hundred = 10 tens) and adding with ⑤ tens
we get ⑮ tens – 8 tens = 7 tens

Th	H	T	O
⑦	⑪	⑮	⑩
8̶	2̶	6̶	0̶
– 6	9	8	4
	2	7	6

Step 3

Subtract the hundreds
9 cannot be subtracted from 1
Take 1 thousand from 8 thousands,
(1 thousand = 10 hundreds) adding with ① hundred
we get ⑪ hundreds – 9 hundreds = 2 hundreds

Th	H	T	O
⑦	⑪	⑮	⑩
8̶	2̶	6̶	0̶
– 6	9	8	4
1	2	7	6

Step 4

Subtract the thousands
⑦ thousands – 6 thousands = 1 thousand

The remaining tea packets = 1276

1)

Th	H	T	O
5	2	8	6
− 3	4	5	2

2)

Th	H	T	O
7	3	4	5
− 2	6	5	2

3)

Th	H	T	O
9	2	5	6
− 4	6	7	8

4)

Th	H	T	O
8	5	6	3
− 3	7	6	8

5)

Th	H	T	O
5	0	5	0
− 2	2	4	0

6)

Th	H	T	O
7	0	6	4
− 3	4	3	7

7)

Th	H	T	O
6	4	0	0
− 2	1	2	0

8)

Th	H	T	O
6	0	0	0
− 2	1	5	0

H	K	W	D	R	O	R	A
2810	4795	1834	3850	4280	4693	4578	3627

Write the letters for the answers from 1 to 8 in the box and read.

9) The sum of two numbers is 3527. If one number is 2685, find the other number.

10) 2456 passengers travelled in a train. Of them, 1387 passengers have reserved their tickets, how many passengers have not reserved?

11) A lungi merchant bought 6570 lungies. If he was left with 1898 lungies, then how many lungies were sold?

12) In a two wheeler shop 543 vehicles were there during the beginning of a month. Again 1475 vehicles arrived for the sale. If 1682 vehicles are sold, how many vehicles are left at the end of the month?

MATHEMATICS

- Do the given problems and enter the result in the given circles.
- Add the numbers in each side of the triangle.
- What do you observe?

1) In a street there are 40 houses in the left side and 30 houses in the right side. What is the total number of houses?

2) In a bus 60 passengers are sitting and 30 passengers are standing. How many passengers are there in the bus?

3) In an aeroplane there are 200 passengers and 20 workers. How many are there in that aeroplane?

4) There are 1000 roses in a flower shop. 300 roses are used to make garlands. How many roses are left?

5) 30 laddus are issued from 100 laddus. How many laddus are remaining?

6) 20 boys and 30 girls are studying in a class. What is the total number of students?

7) A jack fruit has 160 pods in it and another jack fruit has 100 pods. What is the total number of pods?

8) 700 lemons were bought to prepare pickle. Out of these 200 were used. How many lemons were left?

9) In a shop there were 500 shirts. 250 shirts were sold. How many shirts were left.

MATHEMATICS
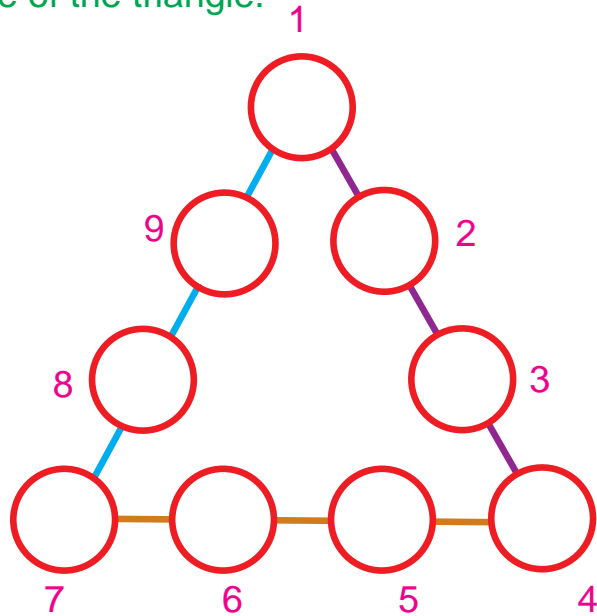
Observe the following pictures and frame the problems.

₹ 210   ₹ 425   ₹ 830
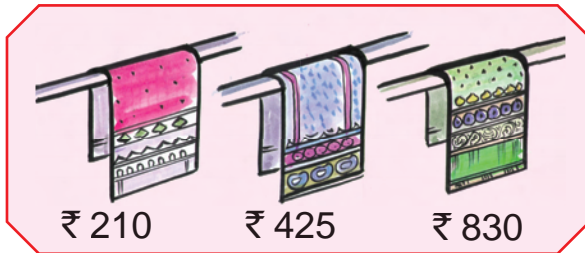
Problem

What is the total cost of 3 sarees?

Problem

25 Beads   21 Beads

Problem

30 Eggs   25 Eggs
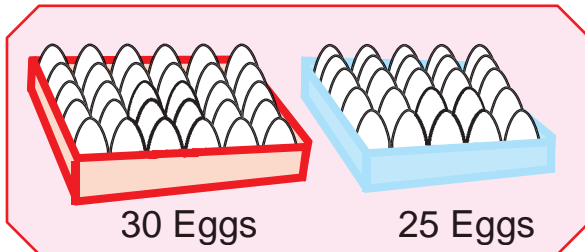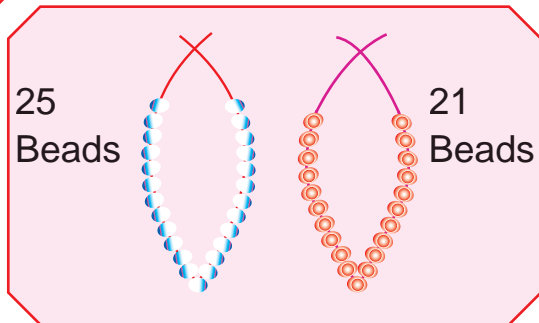
Problem

There are 70 green grapes and 60 black grapes. How many green grapes are more than black grapes?

Problem

20 Biscuits   36 Biscuits

Problem

5 Poories   35 Poories
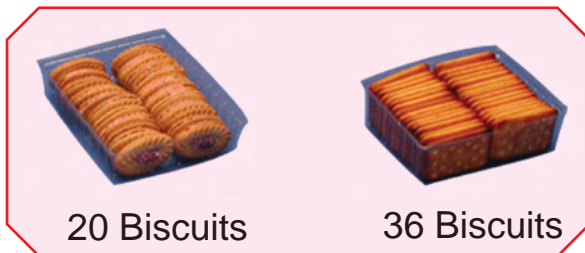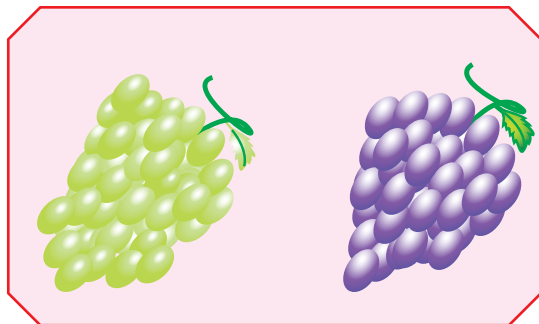
Estimation in addition and subtraction
Estimation in addition

Balachandar has to travel 14 km by bus and 18 km by train to reach his office. Estimate the total distance he has to travel.

Mode of travel	Actual distance	Estimated distance
Bus	14 km	10 km
Train	18 km	20 km
Total distance	32 km	30 km

The difference between
actual distance and estimated distance = 32 km – 30 km

          Difference   = 2 km

Practice

A basket contains 83 kg of tamarind and another basket contains 46 kg of tamarind. Estimate the total weight of tamarind. Find the difference between actual weight and estimated weight.

Estimation in subtraction

A goldsmith had 88 g of gold coins. He used 63 g of gold coins to make different patterns of ornaments. Estimate the weight of gold coins left with him.

Coins	Actual weight	Estimated weight
Total	88 g	90 g
Used	63 g	60 g
Left	25 g	30 g

The difference between actual weight and estimated weight

$$= 30\ g - 25\ g$$

$$\text{Difference} = 5\ g$$

Practice

There were 76 kg of cakes in a bakery shop. In two days 43 kg were sold. Estimate the weight of the cakes left.

Do the sums

1) 3462
    + 2524
    _____

2) 2835
    + 4124
    _____

3) 3654
    + 4303
    _____

4) 1347
    + 6532
    _____

5) 2289
    + 7642
    _____

6) 3009
    + 4006
    _____

7) 2010
    + 5297
    _____

8) 1800
    + 3589
    _____

9) A company produced 4152 dresses for boys and 2340 dresses for girls. Find the total number of dresses produced.

10) A factory manufactured 2436 mixies last week and 3527 mixies this week. How many mixies were manufactured altogether?

11) 8000
     − 3000
     _____

12) 5900
     − 4700
     _____

13) 6058
     − 2035
     _____

14) 7090
     − 5040
     _____

15) 6437
     − 2329
     _____

16) 8942
     − 3424
     _____

17) 7826
     − 3918
     _____

18) 6243
     − 2462
     _____

19) A farmer 6475 bags of carrot had taken to the market. He sold 5243 bags. How many bags of carrot are left?

20) In a school 2238 students went to various educational tours last year. If 1356 students went to some tours this year, how many more students went last year?

MATHEMATICS

MEASURING LENGTH

FANCY STORE

Friends are talking about the stationary items which they have bought.

What did you buy?

I bought hair pin and pencils.

I bought pencil eraser which is small in length.

I bought ribbon. It is longer in length.

Shall we measure and see...

Pencil, ribbon, cloth etc... are measured by length.

Measuring tools

Shall we measure with scale?

Pencil is 10 centimetre long.

Now can we measure ribbon by using tape?

The length of the ribbon is more than the length of the scale.
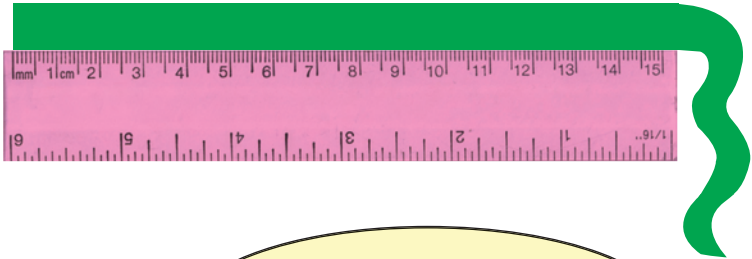
Is there any other tools to measure?
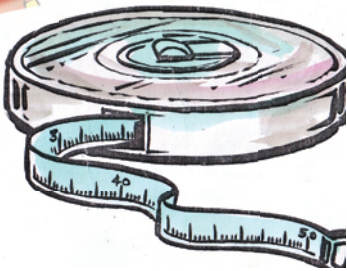
We can also use the tape to measure.

We measure the length of a play ground with a measuring tape.

Length of smaller objects are measured in centimetre

Centimetre can be written as 'cm'.

Take the things given in pictures and write the approximate and actual length.
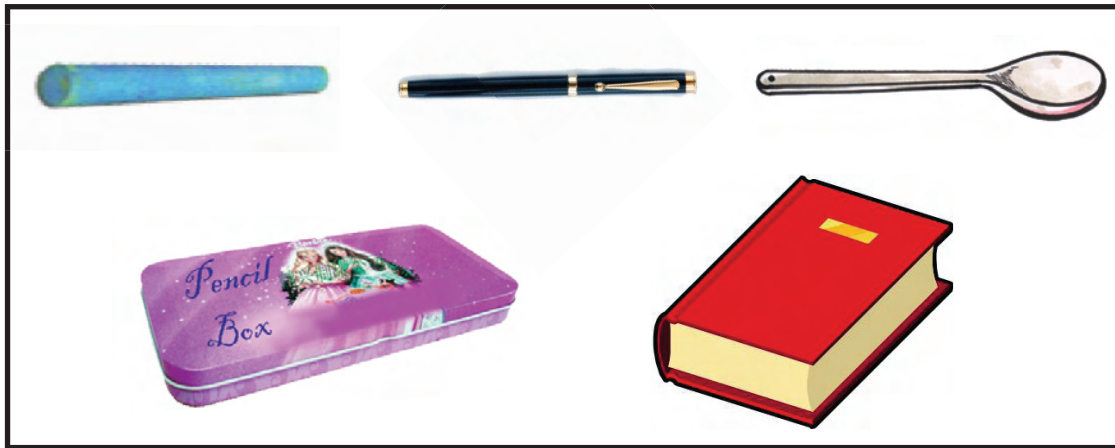
1) Length of a chalk = 8 cm

2) Length of a pen =

3) Length of a spoon =

4) Length of a box =

5) Length of a book =

Relation between metre and centimetre

Archana is measuring her friend's height.

Height is measured in metre.

1 metre = 100 centimetre

Metre can be written as 'm'.

You are 100 cm tall

Yes, my height is 1 metre.

Conversion of metre into centimetre

Convert 3 m into cm.
1 m = 100 cm
3 m = 3 × 100 cm
3 m = 300 cm

Convert 15 m into cm.
1 m = 100 cm
15 m = 15 × 100 cm
15 m = 1500 cm

Convert 6m 20cm into cm
1 m = 100 cm

step 1
6 m = 6 × 100 cm
6 m = 600 cm

step 2
600 cm
+ 20 cm
_____
620 cm

6m 20cm = 620 cm

To change m into cm, multiply by 100

Practice

1) 2 m = 200 cm

2) 5 m = _____ cm

3) 25 m = 2500 cm

4) 48 m = _____ cm

5) 3m 40cm = 340 cm

6) 7m 10cm = _____ cm

7) 8m 7cm = 807 cm

8) 6m 5cm = _____ cm

Conversion of centimetre into metre

Convert 500 cm into m
100cm = 1m
500 ÷ 100 = 5
500cm = 5m

Convert 725 cm into m
100cm = 1m
725cm = 700 cm + 25 cm = 7 m + 25 cm
725cm = 7m 25cm

To change cm into m, divide by 100

1)	200 cm	=	2 m	5)	485 cm	= 4m 85cm
2)	500 cm	= ____m		6)	775 cm	= ___m ___cm
3)	5700 cm	= ____m		7)	970 cm	= ___m ___cm
4)	4800 cm	= ____m		8)	706 cm	= 7m 6cm

Addition

12m 75cm + 58m 56cm

```
   m    cm
   12   75
+  58   56
  _____
   71   31
  _____
```

Step 1
Add cm
```
   75
+  56
  ____
131cm = 1m 31cm
  ____
```

Step 2
Add m
```
    1
   12
+  58
  ____
   71 m
  ____
```

12m 75cm + 58m 56cm = 71m 31cm

Add

m	cm
92	19
+ 83	42

m	cm
22	65
+ 97	48

m	cm
25	60
+ 56	35

m	cm
43	08
+ 27	64

MATHEMATICS

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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

95m 27cm − 46m 18cm

	m	cm
	95	27
−	46	18
	49	09

95m 27cm − 46m 18cm = 49m 9cm

Step 1

subtract cm

27
− 18
9 cm

Step 2

subtract m

95
− 46
49 m

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

MATHEMATICS

Subtraction with conversion

84m 85cm − 68m 96cm

m	cm
84	85
− 68	96
15	89

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

Step 1

subtract cm

85		185
− 96		− 96
		89

Step 2

subtract m

83
− 68
15

84m 85cm − 68m 96cm = **15m 89cm**

Subraction

m	cm
93	29
− 32	65

m	cm
85	21
− 47	75

m	cm
98	46
− 78	89

m	cm
56	18
− 28	37

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.

		m	cm
Total length of the wire	=	80	50
Length of the wire used	= −	65	75
	=	14	75

Remaining length of the wire is **14m 75cm**

1) Kannan sold 48m 87cm of curtain cloth from the roll of 95m 75cm. How much is left over?
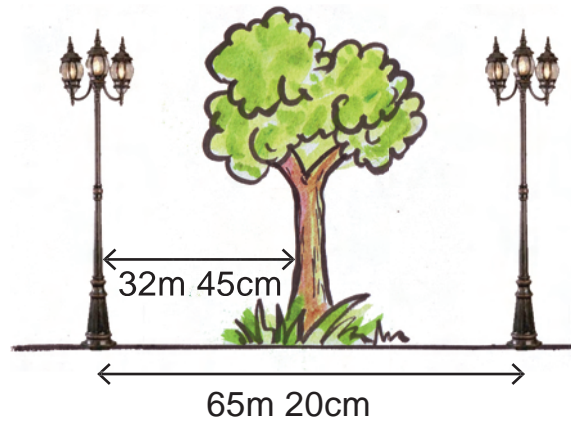
32m 45cm

65m 20cm

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.

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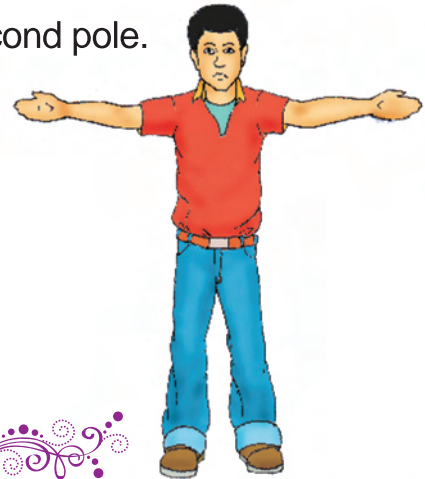
PROJECT

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.

MATHEMATICS

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

72m

82m

46m

55m

87m

79m
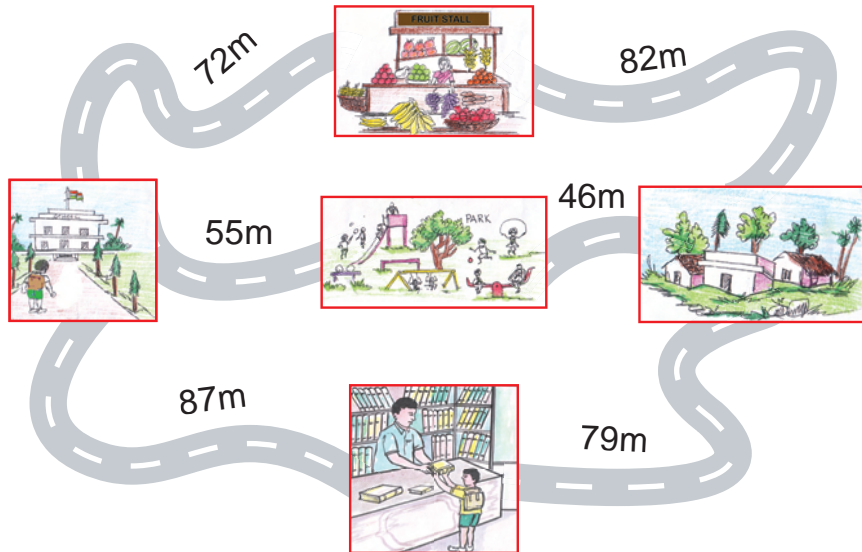
Vijay goes to school by walk. While going to school he buys notebooks from the bookstall.

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 _____

MATHEMATICS

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

1)
m	cm
80	20
+ 35	65

2)
m	cm
77	77
+ 38	60

3)
m	cm
85	85
+ 76	42

4)
m	cm
62	80
− 35	65

5)
m	cm
97	07
− 38	52

6)
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?

WEIGHING OBJECTS

More weight

Less weight

Basket ball

Iron ball

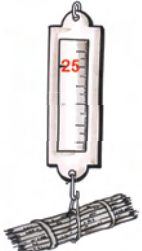| Weight of potatoes are more	Weight of potatoes are less	Weight of potatoes are equal
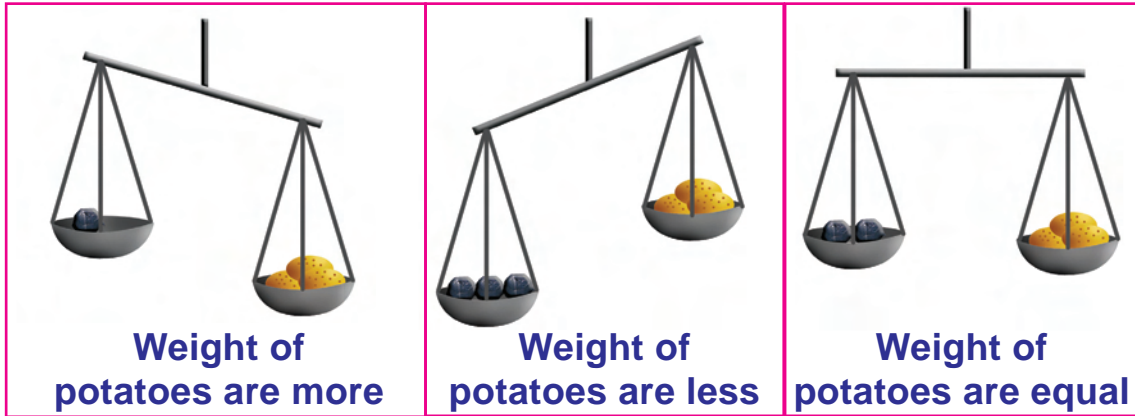
Kilogram can be written as 'kg'

Weighing stones and weight of objects in kilogram

1kg

2kg

5kg

10kg

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
Kumar	=	30 kg
Anandhan =		+ 31 kg
		93 kg

32 kg   30 kg   31 kg

Total weight of them is 93 kg

Practice

1) Find the total weight of vegtables

15 kg   10 kg   7 kg

Weight of

tomatoes	=	15 kg
potatoes	=	10 kg
onions	=	+ 7 kg
Total weight of vegetables	=	

2) Find the total weight of cereals.

Green gram

Black gram

10 kg   75kg   63kg

Weight of

wheat	=	10 kg
green gram	=	75 kg
black gram	= +	63 kg
Total weight	=	

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

MATHEMATICS

Subtraction in kilogram
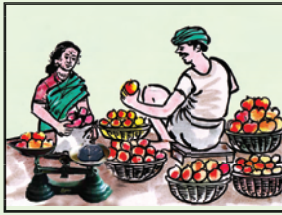
Weight of mangoes in the shop	=	25 kg
Weight of mangoes sold	= −	17 kg
		8 kg

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.

28 kg
− 16 kg
12 kg

Weight of melted Ice = 12 kg

Practice

1) Weight of

Laddu =   28 kg

Sold   = −16 kg

Remaining laddu = _____ kg

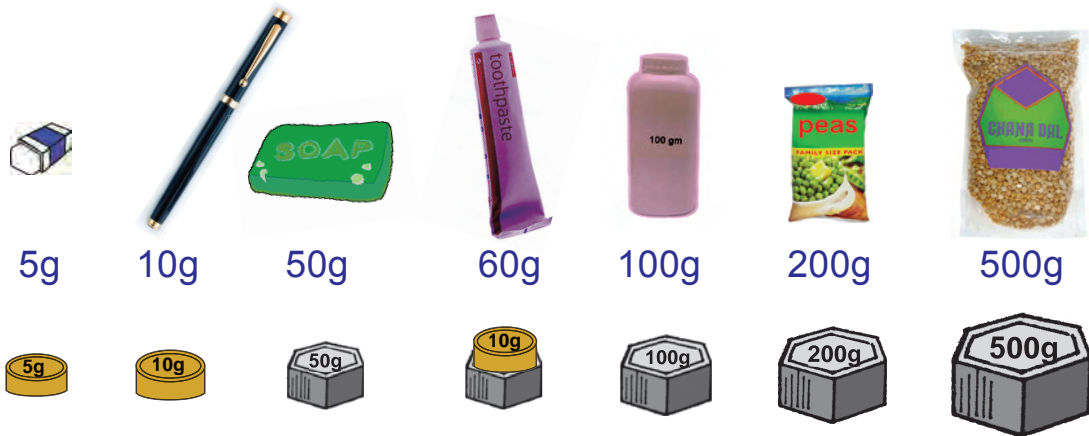2) Weight of

Halwa =   43 kg

Sold   = − 18 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

| 5g | 10g | 50g | 60g | 100g | 200g | 500g |

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

gram can be written as 'g'

1 Kilogram = 1000 gram

500g + 500g = 1000g

200g + 200g + 200g + 200g + 200g = 1000g

100g 100g 100g 100g 100g 100g 100g 100g 100g 100g = 1000g

Addition in gram

Let us find the total weight of the plums

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

1 kg = 1000g

1400 g = 1000 g + 400 g
= 1 kg + 400 g
= 1 kg 400 g

Total weight of plums = 1kg 400g

1) Find the total weight of grapes.

$$
\begin{array}{r}
150\ g \\
350\ g \\
+\ 850\ g \\
\hline
\end{array}
$$

Total weight of grapes = _____ g

2)	3)	4)	5)
$\begin{array}{r} 250\ g \\ 345\ g \\ +\ 657\ g \\ \hline \end{array}$	$\begin{array}{r} 247\ g \\ 199\ g \\ +\ 238\ g \\ \hline \end{array}$	$\begin{array}{r} 645\ g \\ 561\ g \\ +\ 359\ g \\ \hline \end{array}$	$\begin{array}{r} 894\ g \\ 467\ g \\ +\ 500\ g \\ \hline \end{array}$

Subtraction in gram

Let us calculate weight of mango.

1650g Apple Guava Mango

1350g Apple Guava

Weight of

yellow bag   =   1650 g

red bag   = − 1350 g

$$\overline{ 300\ g}$$

Weight of mango is 300 g

1)	2)	3)	4)
$\begin{array}{r} 756\ g \\ -\ 435\ g \\ \hline \end{array}$	$\begin{array}{r} 539\ g \\ -\ 49\ g \\ \hline \end{array}$	$\begin{array}{r} 465\ g \\ -\ 309\ g \\ \hline \end{array}$	$\begin{array}{r} 647\ g \\ -\ 35\ g \\ \hline \end{array}$

MATHEMATICS

Addition in kilogram and gram

Find the total weight of the following things.

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

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

	kg	g
	1	255
	2	350
+	3	300

Total weight of papaya is _____ kg _____ g

2) Find the total weight of vegetables

17kg 250g   13kg 500g   25kg 105g

	kg	g
	17	250
	13	500
+	25	105

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

MATHEMATICS

Subtraction in kilogram and gram

Let us find the weight of honey

5kg 950g

4kg 895g

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

Weight of honey wax is 1kg 55g

Practice

1)

13kg 750g   11kg 255g

		kg	g
Weight of 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

		kg	g
Weight of 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

MATHEMATICS

144
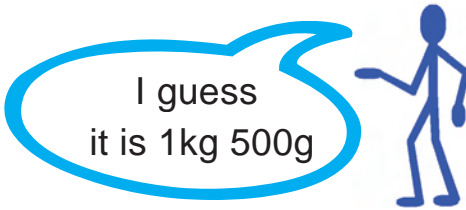
Guessing weight

Shall we check our guessing, by weighing !

Pomegranate   Sappota
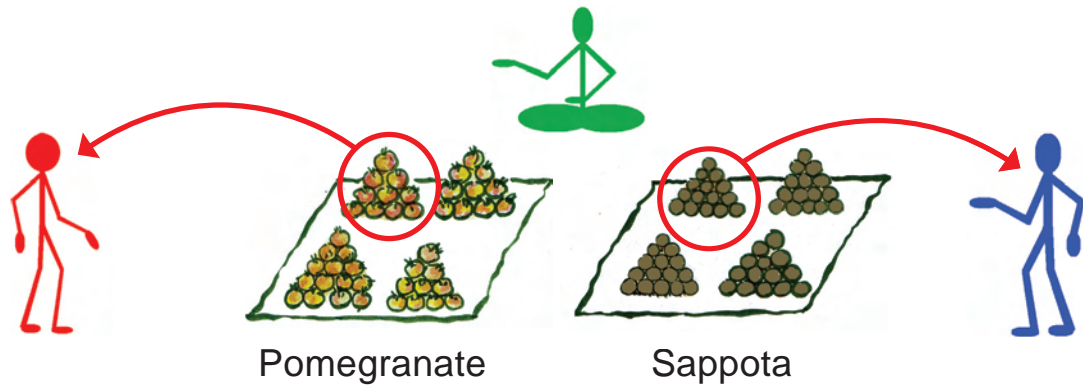
I guess it is 1kg

I guess it is 1kg 500g

Both are verifying their guessing.

1kg

1kg

500g 200g

750 g

500g

1kg 500g
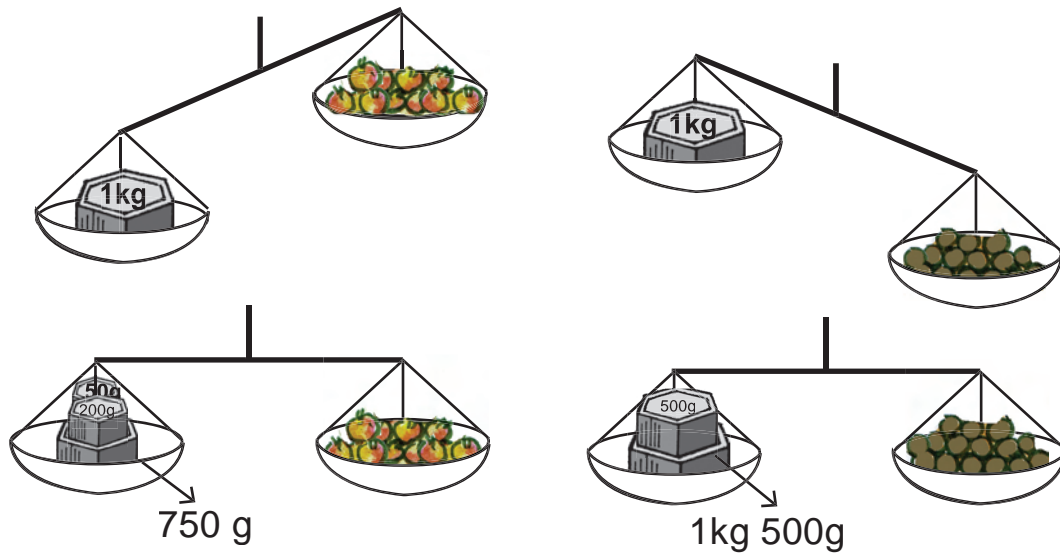
My guessing is close to the correct weight.

My guessing is correct.

Estimate the weight of objects.

Maths Book   200g
Pencil eraser   5g
Bucket   130g
Crayon   75g
School bag   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.			

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.

MATHEMATICS

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?

MATHEMATICS