

Readiness Programme

(సంసిద్ధత కార్యక్రమం)

Mathematics

(గణితం)

Class - 5





Learner will be able to : Read and write the numbers.

Sai is studying in 5th class. His sister Valli is studying in 3rd class. In summer holidays, Sai and Valli wanted to go to Bangalore with their grand father Nagayya. They reached Vijayawada railway-station.



Observe the picture and answer the following questions:

1. What is the platform number?
2. What is the time shown in the clock?
3. How many persons can you see in the picture?

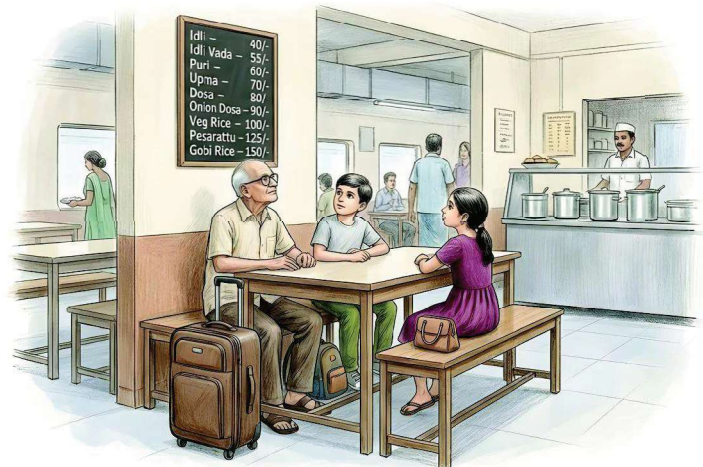
When they entered the platform number 1, they heard an announcement that the arriving train is 30 minutes late. So Sai, Valli and Nagayya went to have some breakfast in the railway canteen.

Observe the price list and help Sai and Valli solve the questions they have in mind.

1. For a plate idly how much amount I have to pay?

Number _____

Number name _____



Idli -	40/-
Idli Vada -	55/-
Puri -	60/-
Uppma -	70/-
Dosa -	80/-
Onion Dosa -	90/-
Veg Rice -	100/-
Pesarattu -	125/-
Gobi Rice -	150/-



Student Activity



Observe the price list and help Sai and Valli to solve the questions araised in their minds.

Idli -	40/-
Idli Vada -	55/-
Puri -	60/-
Upma -	70/-
Dosa -	80/-
Onion Dosa -	90/-
Veg Rice -	100/-
Pesarattu -	125/-
Gobi Rice -	150/-

1. The amount to pay one pesarattu.

Number _____

Number name _____

2. For one dosa and one onion dosa the total amount will be.

Number _____

Number name _____

3. If we give ₹200 for dosa and onion dosa how much amount will be returned?

4. How much amount we have to pay for 3 pesarattus?

Number _____

Number name _____

5. Write expanded form to the given numbers.

a) $34 = 3 \times \underline{\quad} + 4 \times \underline{\quad}$

b) $474 = 4 \times \underline{\quad} + 7 \times \underline{\quad} + 4 \times \underline{\quad}$

6. Join the numbers with a line increasing order.

100 200 400 600 700 1000
 300 500 800 900

7. How many 10 s are there in 707 ?

a) 17 tens b) 7 tens c) 70 tens d) 700 tens



Teacher Activity



Learner will be able to : Write numbers in ascending order and descending order.

Nagayya, Sai and Valli boarded the train. While travelling Nagayya took his bank-pass book from his handbag to see his bank transactions. Sai was very curious to see the bank-pass book. Nagayya gave his pass-book to Sai. He explained all the entries in the Pass Book.

Let's observe the transactions in a pass book:

Name: Nagayya PASS-BOOK				
Date	Details	Debit	Credit	Balance
30-04-2026	Available balance			143
02-05-2026	Credit pension		9,700	9,843
03-05-2026	Balaji grocery	5,200		4,643
10-05-2026	House-rent	2,500		2,143
20-05-2026	LIC-policy	1,500		643
31-05-2026	Bank ATM charges	150		493

Do you know the ascending and descending order. Let us learn.

Write the debits in the passbook in ascending and Descending order.

Ascending order : 150, 1,500, 2,500, 5,200.

Descending order : 5,200, 2,500, 1,500, 150.

Now answer the following questions:

- 1) What is the highest balance amount? In which date is it highest?
- 2) What is the lowest balance amount? In which date is it lowest?
- 3) Write the amounts in the balance column in ascending order.
- 4) Write the amounts in the balance column in descending order.
- 5) Compare the following using suitable symbols ($<$, $>$ or $=$).

a) 150 493

b) 643 493

c) 1500 2500

d) 9843 9843

Work sheet **2**

Ascending & Descending order



1. Write the numbers in ascending order.

a) 328, 951, 111, 909

b) 246, 796, 5,432, 3,347

2. Write the numbers in descending order.

a) 654, 125, 443, 214

b) 93, 568, 71, 536, 32, 976, 48, 178,

3. Put the correct symbol in the space provided. (<, >, =)

a) 781 _____ 781.

b) 781 _____ 871

c) 9894 _____ 8984

4. Use digits 0, 1, 5, 3 and fill the boxes with suitable 4 digit numbers.

a) <

b) >

c) =

d) <

5. Do the following.

a) Circle the largest number.

125, 852, 4,903, 54,393

b) Circle the smallest number.

7,058, 5,078, 8,075, 17,850

6. 1100, 1001, 1110, 1111, 1010. Use the '<' symbol and write these digits in sequence.





Teacher Activity



Learner will be able to : Round off the numbers to the nearest thousands.

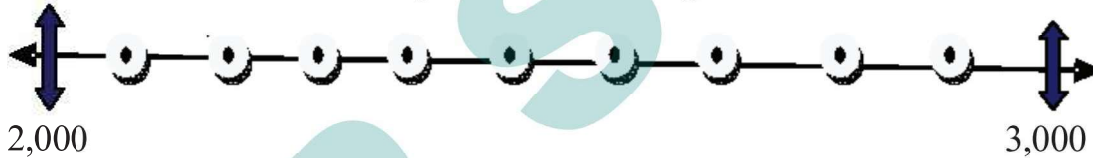
Nagayya explained to Sai and Valli, how to round-off the given numbers to nearest thousands.



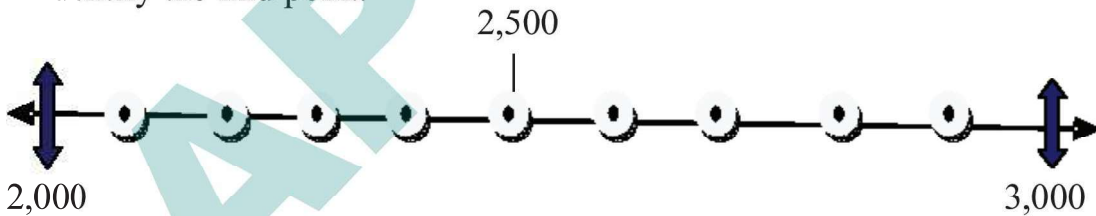
Steps to round off to the nearest 1000

Example : Round off 2,143 to the nearest 1000.

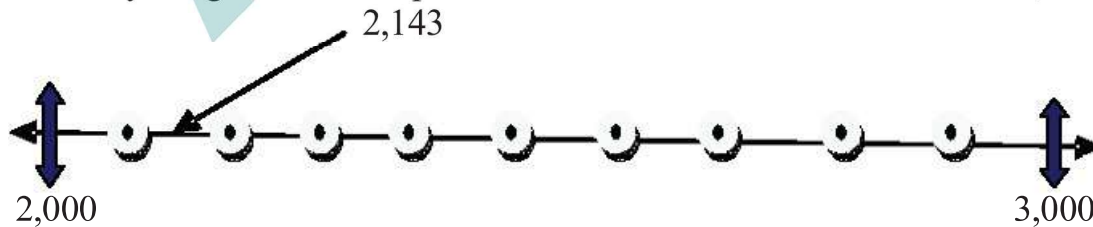
- ◆ Fix the thousand boundary numbers to the given number.



- ◆ Identify the mid point.



- ◆ Identify the given number position on the number line it is nearer to 2,000.



- ◆ Round off 2,143 to its nearest thousands is 2,000.

Round of 4,643 to the nearest 1000.



Work sheet **3**

Round off to the nearest 1000



Student Activity

1. Round off 1990 to the nearest thousands.



2. Round off 7,289 to the nearest thousands.



3. Round off 1,509 to the nearest thousands.



4. Round off make a smallest and biggest 4 digit numbers using 7,0,1,2 and round of both numbers to the nearest thousands.



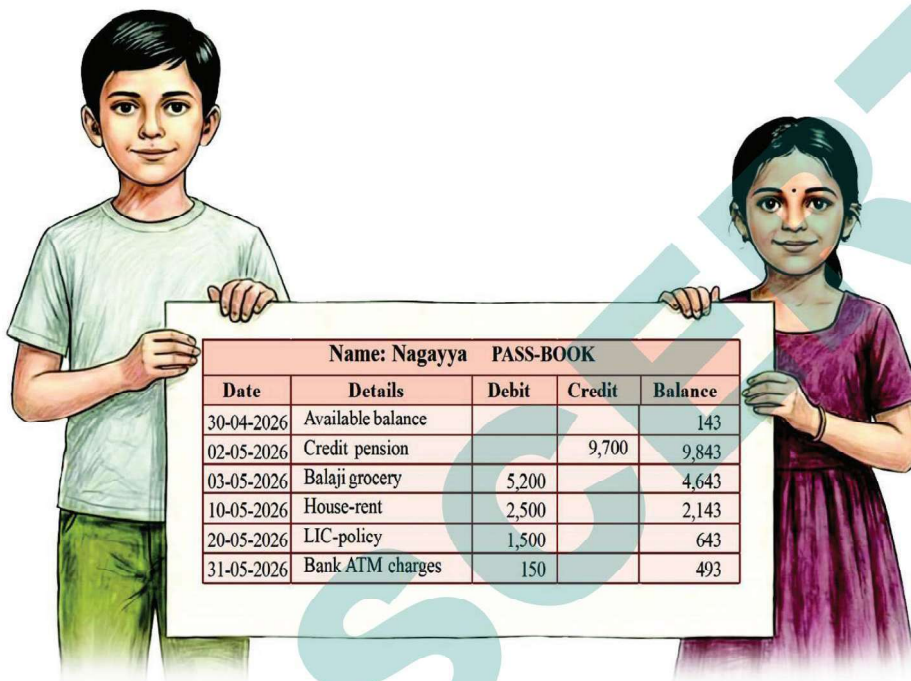
5. Make a smallest 4 - digit number using two '0's and two '9's and round of to the nearest thousands.





Learner will be able to : Solve daily life problems related to addition and subtraction.

Nagayya tried to explain the credits and debits in the pass book to Sai.



Example-1: Available balance as on 30-04-2026 = ₹ 143

Credited pension on 02-05-2026 = (+) ₹ 9,700

The balance as on 02-05-2026 = ₹ 9,843

$$143 + 9,700 = ₹ 9,843$$

Example-2: Balance as on 02-05-2026 = ₹ 9,843

Debit at Balaji / grocery = (-) ₹ 5,200

The balance as on 03-05-2026 = ₹ 4,643

$$9,843 - 5,200 = ₹ 4,643$$

1. Do the following.

- a) $143 + 235$ b) $539 + 709$ c) $2,658 + 5,131$ d) $2,056 + 8,997$

2. Do the following. Check your answer.

- a) $850 - 456$ b) $6,527 - 2,314$ c) $4,526 - 2,398$ d) $4,005 - 2,589$



Student Activity



1. Do the following.

$$\begin{array}{r} \text{a) } 71 \\ + 84 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b) } 7 \\ 85 \\ \hline \end{array}$$

$$\text{c) } 345 + 678$$

$$\text{d) } 569 + 214$$

$$\begin{array}{r} 647 \\ + 9276 \\ \hline \end{array}$$

$$\text{e) } 25 + 368 + 4834$$

2. Do the word problems.

a) A truck weight is 4,370 kg. If 2050 kg iron rods were placed on the truck. How much weight of the truck will be ?

b) Jaya has ₹ 4,500 Babu has ₹ 500 more than Jaya. How much money does Babu have ?

c) Ramesh collected 368 stamps in January. In February, he collected 124 more stamps than January. In March, he collected half of what he collected in February. What is the total number of stamps collected in three months?



Do the following subtractions.

$$\begin{array}{r} \text{a) } 934 \\ (-) 213 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{b) } 500 \\ (-) 243 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} \text{c) } 4857 \\ (-) 759 \\ \hline \\ \hline \end{array}$$

Do the word problems.

- 1) The sum of two numbers is 6,230 .One of them is 1,278. Find the other number.
- 2) In a village panchayat elections 1,045 votes were polled.107 votes are invalid. Find the valid votes number.
- 3) A student says: '802 - 398 = 504, why because I subtracted 400 from 802 and then added 2'. Is the student answer correct? or not? Write the explanation.

Do the following.

a)

Th	H	T	O
3	8	5	0
(+)	5	0	6
	8	9	1
			7

Addend - 1
Addend - 2
Sum

Verify

Subtrahend : 8 9 1 7
Minuend : (-) 3 8 5 0
Difference : _____

b)

Th	H	T	O
2	7	2	6
(+)	6	0	3
			4

Addend - 1
Addend - 2
Sum

Verify

Subtrahend :
Minuend : (-) _____
Difference : _____

Learner will be able to : Solve daily problems related to multiplication.



Teacher Activity



While their journey going on, a person from pantry car came and took order for 3 meals. The rate of each meal is ₹95.



Total amount paid to meal:

The cost of 1 meal is ₹ 95. How much will Nagayya have to pay for 3 meals?

$$\begin{array}{r} 95 \times 3 \\ \hline 285 \end{array} \quad \boxed{15}$$

Nagayya paid ₹ 285 for 3 meals.

Example : In the compartment 12 members ordered their meal. What is the amount need to be paid for 12 members meal.

$$\begin{array}{r} 95 \times 12 \\ \hline 190 \quad \text{.....} \quad (95 \times 2) \\ + 950 \quad \text{.....} \quad (95 \times 10) \\ \hline 1140 \end{array}$$

The total amount has to be pay is ₹1140.

1) Do the following.

a) 24×8 b) 38×7 c) 951×5 d) 968×20

2) In an apple box, apples are arranged in 8 trays. There are 15 apples in each tray. Find the number of apples in the box.



Student Activity



1. Do the following

a) 63×2

b) 75×20

c) 567×5

d) 234×40

2. The cost of 1 liter milk is ₹ 70. What is the cost of 8 liters milk?

3. There are 185 guava trees in a garden. If mango trees are twice in number of guava trees. How many mango trees will be there in garden ?

4. A shopkeeper has to pack 9 boxes with 12 apples in each box. Due to lack of space, he removed one apple from each box. How many apples are there in those boxes now?

5. Choose number of days in 16 weeks. ()

A) 112

B) 102

C) 122

D) 96

6. Write more multiplication facts.

$$24$$

$$2 \times 12$$

$$36$$

$$1 \times 36$$



Teacher Activity



Learner will be able to : Solve daily problems related to division.

Cost of each ticket:

The T.C came and asked for their tickets. The grand father showed the ticket to the T.C. Then Sai and Valli were asked to watch the information given on the ticket.

HAPPY JOURNEY				BZA to SVMB		
PNR No.	Train No	Date	Km	Adult	Child	Ticket No.
442-8324463	18463	31-05-2026	669	1	2	24486031
COACH	SEAT / BERTH	GENDER	AGE	R.FEE	T.CASH	
S10	9(LB)	Male	60			
S10	10 (MB)	Male	10	150	1950	
S10	11 (UB)	Female	8			

Nagayya : Total amount for 3 tickets is ₹1950 (This includes a reservation charge of ₹ 150). What is the cost of 3 tickets without reservation charge?

Sai : Total amount = ₹ 1950
 Res. Charge = (-) ₹ 150
 Amount towards only tickets = ₹ 1800

Example : What is the reservation charge and the ticket cost for each person?

Total reservation fee = ₹ 150
 Res.charge for each = ₹ 150 ÷ 3
 = ₹ 50

$$\begin{array}{r} 3 \overline{) 150} \quad (50 \\ \underline{-15} \\ 00 \\ \underline{00} \\ 0 \end{array}$$

Total tickets cost = ₹ 1800
 Ticket cost for each = ₹1800 ÷ 3

Do the division

$$\begin{array}{r} 3 \overline{) 1800} \quad (6 \\ \underline{-18} \\ \end{array}$$



Student Activity



1. Do the following divisions.

$$\begin{array}{r} 2 \overline{) 240} \\ \underline{2} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

b) $3 \overline{) 390}$ (1

c) $85 \div 3$

d) $508 \div 4$

e) $786 \div 16$

f) $950 \div 30$

2. The cost of 1 dozen books is ₹840. What is the cost of 1 book? (1 Dozen = 12)

3. Look at the division below:

Match the numbers to each part of the division problem. ()

$$\begin{array}{r} 8 \overline{) 468} \\ \underline{-40} \\ 68 \\ \underline{64} \\ 4 \end{array}$$

a) Dividend = 468, divisor = 4, quotient = 8, remainder = 58

b) Dividend = 468, divisor = 8, quotient = 58, remainder = 4

c) Dividend = 468, divisor = 58, quotient = 8, remainder = 4

d) Dividend = 58, divisor = 8, quotient = 468, remainder = 4



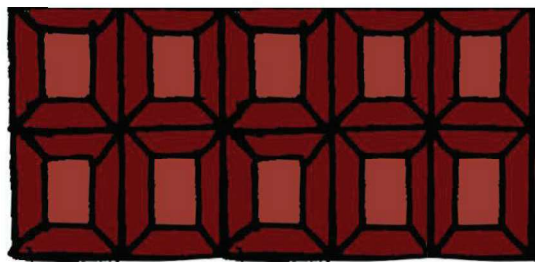
Teacher Activity



Learner will be able to : Identify and add like fractions.

Addition and Subtraction of like Fractions:

Valli purchased one big chocolate. She distributed the chocolate in the following way to Sai and grand father Nagayya.



Nagayya



Sai



Valli

Number of equal pieces in the big chocolate = 10

Number of chocolate pieces Valli got = 3

Number of chocolate pieces Sai got = 3

Number of chocolate pieces Nagayya got = 4

Fraction part taken by Valli = $\frac{3}{10}$

Fraction part taken by Sai = $\frac{3}{10}$

Fraction part taken by Nagayya = $\frac{4}{10}$

In fraction $\frac{3}{10}$ — Numerator
— Denominator



Now let us add the three parts (fractions) taken by Nagayya, Sai and Valli.

$$\frac{3}{10} + \frac{3}{10} + \frac{4}{10} = \frac{10}{10} = 1 \text{ (Chocolate)}$$

Fractions with same denominators are called “like fractions”

$\frac{3}{10}$ and $\frac{4}{10}$ are like fractions

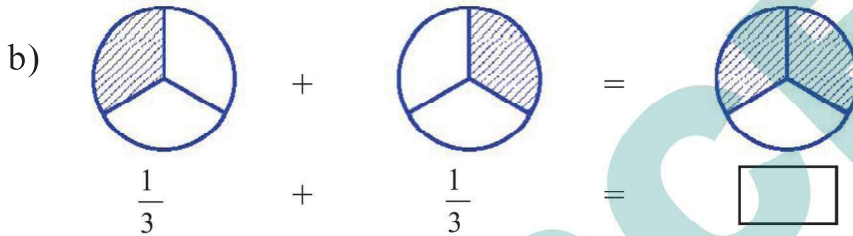
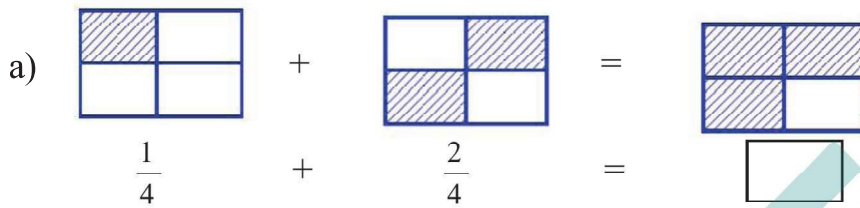
Can you give 3 more like fractions with denominator 10?

Student Activity

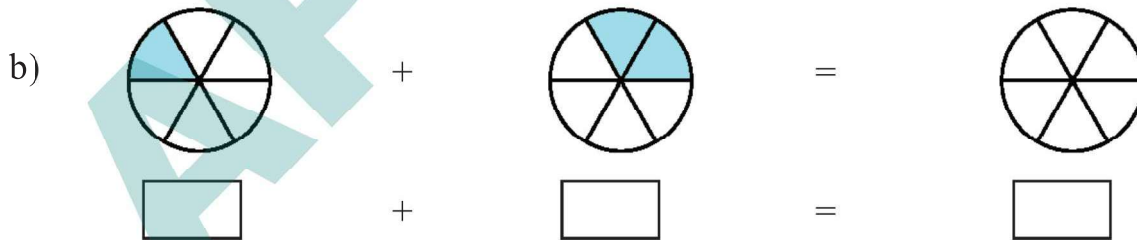
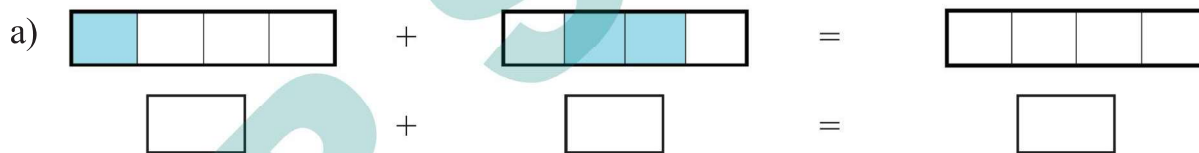
Addition of like fractions :

Example: $\frac{1}{10} + \frac{3}{10} = \frac{1+3}{10} = \frac{4}{10}$

Count the shaded parts and then add write it in the box.



1. Add the shaded parts and write the fraction in boxes given below.



2. Do the sums.

a) $\frac{6}{9} + \frac{2}{9} =$

c) $\frac{4}{7} + \frac{3}{7} =$

e) $\frac{25}{49} + \frac{13}{49} =$

b) $\frac{2}{11} + \frac{7}{11} =$

d) $\frac{8}{15} + \frac{2}{15} =$

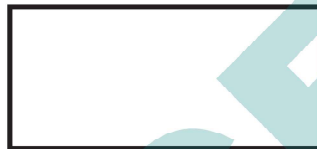
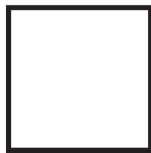
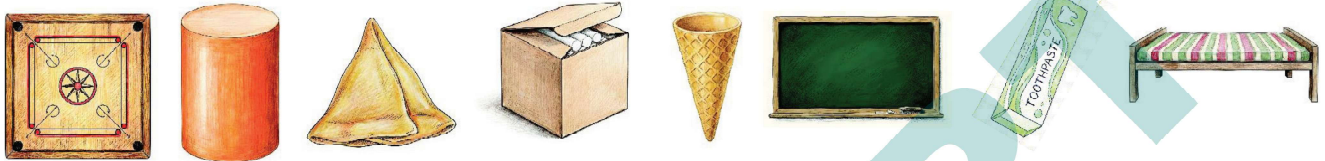
f) $\frac{25}{81} + \frac{53}{81} =$



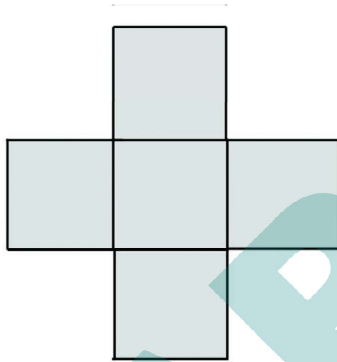
Teacher Activity

Learner will be able to : Identify the net forms of the shapes.

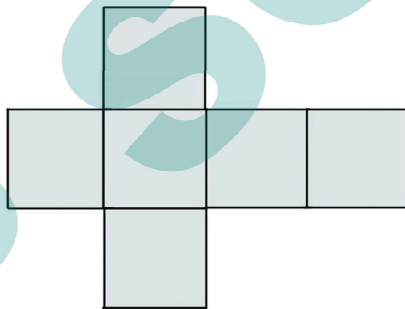
The teacher asks the children to observe the shapes and match with its traced figures.



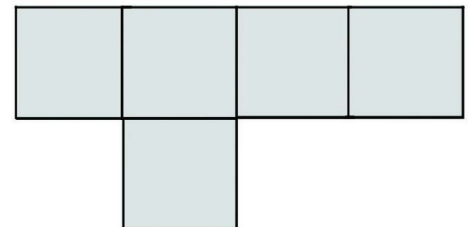
1. Take one chalk box and unfold. Select the net form from the given below pictures. ()



(a)

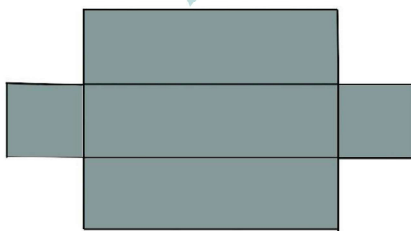


(b)

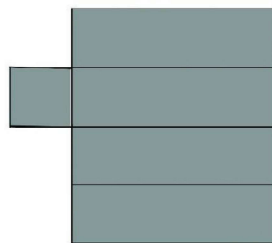


(c)

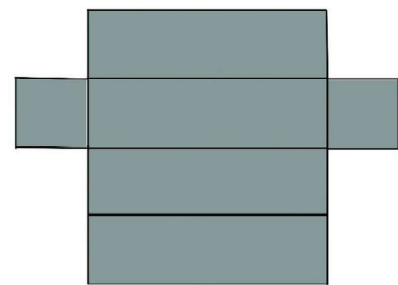
2. Take one tooth paste box and unfold. Select the net form from the given below pictures. ()



(a)



(b)

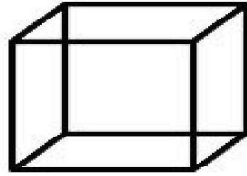


(c)

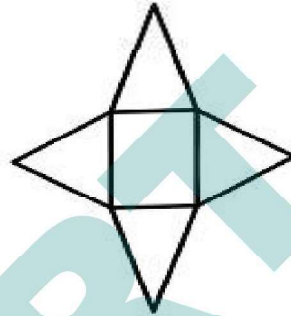
Student Activity

Observe the 3D shapes of the objects and match them with its net forms.

a)



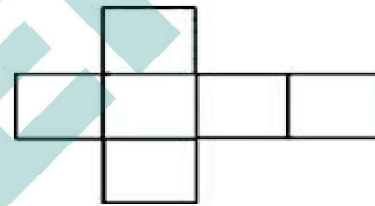
(i)



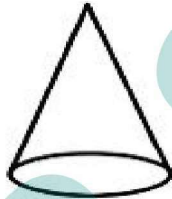
b)



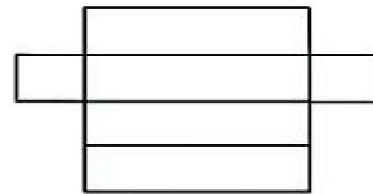
(ii)



c)



(iii)



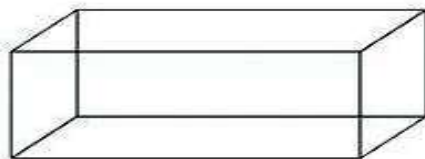
d)



(iv)



e)



(v)



Teacher Activity

Learner will be able to : Find the perimeter of the given shapes.

1. Match the 3D Shapes with its names after tracing.



Rectangle



Square



Triangle

2. Make some squares, rectangles and triangles with straws/ sticks.

3. Measure and draw the shape of the Green/ black board.

4. Match the following.

a) Four sides are equal.

i) Rectangle ()

b) Adjacent sides are different but opposite sides are equal.

ii) Triangle ()

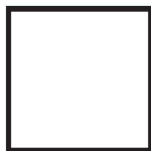
c) Closed figure with three sides.

iii) Square ()

5. A man announces that the four sides of the object shape are having equal lengths. The shape of the picture is _____

6. If the side measurement is 6cm the perimeter is $6\text{cm} + 6\text{cm} + 6\text{cm} + 6\text{cm} =$ _____

7. Find the perimeter of these pictures.

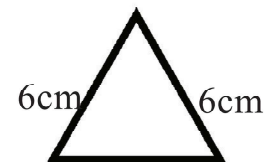


7cm

5cm



10cm



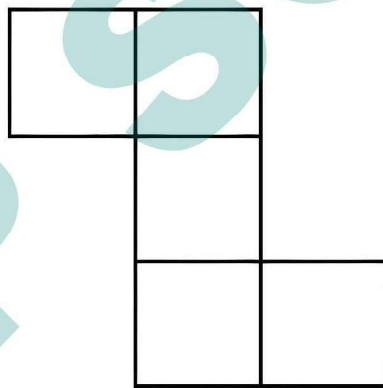
6cm

Student Activity

1. Sai measured a shape as 15cm length and 12cm width. The shape of the picture is _____.
2. 6m, 6m, 15m, 15m are the measurements of a shape _____.
Draw and Find the perimeter of the shape.

3. Find the perimeter of the triangle. (All sides are equal in length.) one side = 8cm

4. Find the perimeter to the given picture. (unit : 1 side = 1cm)



5. Mahesh purchased a square shape carpet. One side on the carpet length is 180cm. Find the perimeter of the carpet.



Teacher Activity



Learner will be able to : Use the metre and centimetre in daily life.

The teacher asks the students to observe the below picture and answer the questions.



1. Have you ever been to a cloth store?
2. What do you observe there?
3. Look at the picture. Is the object used to measure the cloth appropriate?
4. Do you know the name of the object he is measuring with?

The teacher asks the students to observe the picture and answer the questions.

1. Have you ever been visited a tailor?
2. Which purpose you visited?
3. Which thing he / she used to take measurement?
4. Have you observed some big and small lines on it?

The teacher presents the measuring scale/ tape in the class and shows how to measure with a tape.



Measure the heights of your friends

S.No.	Name of the student	Heights more than 1 meter	Heights less than 1 meter	Equal to one meter

How many centimetres for one metre?



Student Activity

- Write the daily life situations where you can see 1 meter measurement.
- Write the daily life situations that you measure in centimetres.

You learnt that 1 meter = 100 centimetres in class 4.

- Convert the meters into centimetres.
 - 9 meters = _____ cm
 - 95 meters = _____ cm
- Convert the centimetres into metres.
 - 176 cm = _____ meters + _____ cm
 - 268 cm = _____ meters + _____ cm
- In 346 cm or 3m 46cm, which one is longer?
- Compare the following using suitable symbols. (>, =, <)
 - 5m 90cm 50m 9cm
 - 70m 7000cm
 - 16m 85cm 5m 16cm
 - 506cm 506m

7. Do the sums.

	m	cm	
a)	5	25	
	(+)	645	
	_____	_____	

	m	cm
b)	15	09
	(+)	1075
	_____	_____



Teacher Activity

Learner will be able to : Use the kilogram and gram in daily life.

1. The teacher asks the children to observe the table and tick (✓) to the items that your family purchases in kilograms or grams for a month.

S.No.	Name of the item	Kilograms	grams
1	Rice		
2	Atta (Wheat flour)		
3	Mustard seeds		
4	Groundnut seeds		
5	Cumin seeds		
6	Toor dal		

2. Observe the pictures and write the answers.

a) $200g + 50g + 200g + 50g + 100g =$

b) $100g + 200g + 200g + 50g =$

c) $50g + 100g + 200g + 200g + 50g =$

d) $250g + 250g + 250g + 250g =$

Which of the above sum is equal to a Kilogram?

Conversion of kilograms to grams:

Convert 6 kilos into grams.

1 kilogram = 1000g

6 kilograms = 1000×6
= 6000grams.

Conversion of grams to kilograms:

Convert 3694 grams into kilograms.

1000 grams = 1 kilogram

3694 grams = 3000g + 694 g

(3000 grams is equals to 3 kilograms.)

= 3kg + 694g = 3kg 694g

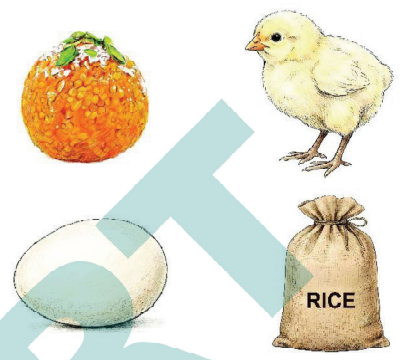
Work sheet 12

Weight

Student Activity

1. Tick (✓) the right option.

- 1) A laddu weighs (Kilograms / grams)
- 2) A chick weighs (Kilograms / grams)
- 3) A rice packet weighs (Kilograms / grams)
- 4) One egg weighs (Kilograms / grams)
- 5) Your weight (Kilograms / grams)



2. Convert the following.

- a) 2 kilograms into grams.
- b) 10 kilograms into grams.
- c) 2860 grams into kilograms
- d) 8467 grams into kilograms

3. Compare the following using suitable symbols (<, =, >).

- a) 3kg 3000g
- b) 4kg 645g 4kg 465g
- c) 9kg 240g 9420 grams
- d) 8650g 800g + 650g

4. Do the additions.

$$\begin{array}{r} \text{kg} \quad \text{g} \\ \text{a) } 5 \quad 900 \\ (+) 4 \quad 065 \\ \hline \end{array}$$

$$\begin{array}{r} \text{kg} \quad \text{g} \\ \text{b) } 7 \quad 920 \\ (+) 3 \quad 565 \\ \hline \end{array}$$

$$\begin{array}{r} \text{kg} \quad \text{g} \\ \text{c) } 3 \quad 460 \\ (+) 5 \quad 950 \\ \hline \end{array}$$

Self Assessment

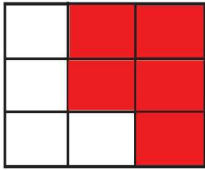
1. What is the place value of 5 in the number 4,521? ()
a) 5 b) 50 c) 500 d) 5000
2. How many groups of 10 make up the number 1,000? ()
a) 10 Groups b) 100 Groups c) 1,000 Groups d) 1 Group
3. Using the digits 3, 0, 8, and 1 only once, what is the smallest four-digit number you can make?
4. Which statement is TRUE? ()
a) $4021 > 4102$ b) $789 < 798$ c) $5500 = 5050$ d) $1010 < 1001$
5. Sarah has ₹ 5420 and Tom has ₹ 4520. Who has enough money to buy a bike that costs ₹ 5000?
6. If the difference between two numbers is 1,500 and the smaller number is 3,500, what is the larger number? ()
a) 2,000 b) 4,000 c) 5,000 d) 5,500
7. Find the value of 'A' and 'B' in the following subtraction:
$$\begin{array}{r} 7A5 \\ (-) 23B \\ \hline 542 \end{array}$$
8. If $250 \div 5 = 50$, what is the value of $2500 \div 50$? ()
a) 5 b) 50 c) 500 d) 5000
9. A rectangular grid has 24 equal squares. If 5 squares are already shaded, how many more squares need to be shaded to make exactly $\frac{1}{2}$ of the grid shaded?

Self Assessment

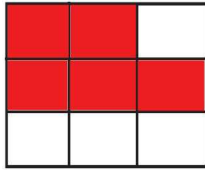
1. Which one is the smallest number? ()
a) 9099 b) 9909 c) 9990 d) 9009

2. "Seven thousand seven hundred and seven". Write the number _____

3. Who will get more cake? ()



Krishna



Radha

- a) Krishna b) Radha
c) both will get equal cake d) both will not get equal cake.

4. Write predecessor and Successor for 2100.

Predecessor :

Successor :

5. Write the Nearest thousand to 9499.

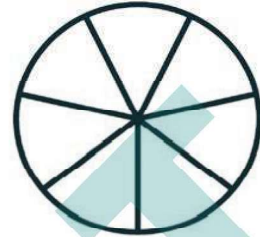
6. - 7109 = 1981

7. Vijaya earned ₹ 6500 for a work. She spent ₹ 1200 Rice for rice, ₹ 1050 for oil, ₹ 425 for vegetables. How much money is left with her now?

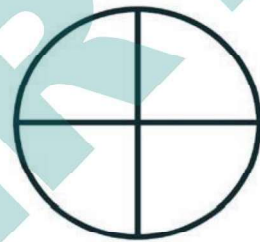
8. 15 kg apple basket costs ₹ 1750. Reshma purchased 5 kg How much amount she has to pay?

FRACTIONS

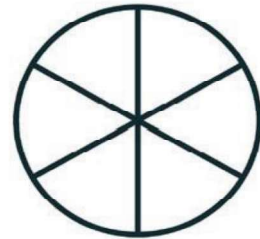
$\frac{3}{7}$



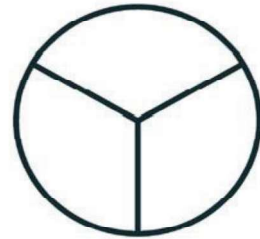
$\frac{2}{4}$



$\frac{5}{6}$



$\frac{1}{3}$



$\frac{3}{6}$

