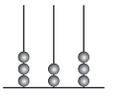
Rethink Mathematics-2

Chapter-1 Number upto 999

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Grouping and counting number upto 99. Revision of before/after, between, ascending and descending order	Working with numbers upto 99 (Revision)	Activity worksheet on number upto 99 can be done.	What comes before 100?
Number Names beyond 99 upto 999	Writing and waiting with number upto 999	Children can be asked to recite number upto 999 worksheet on number names and write on figures	Fill in the blanks 809, __, __, 812
Writing numbers names and figures Reading 3 digit number on the abacus	Student will be able to in figures and numbers names Reading numbers on the abacus	Flash cards of abacus with values can be prepared and done with the children.	What is the value of the abacus shown 

LOOK BACK

1. Write the number that each of blocks represent.

a. 13 b. 54 c. 35 d. 70 e. 61 f. 27

2. Write the number names for the following numbers.

a. Sixty five b. Fifty Seven c. Fifty two

d. Sixty six e. Twenty four f. One hundred

3. What comes before?

a. 11 b. 21 c. 33 d. 44 e. 18 f. 37

4. Write the number that comes before and after.

a. **33**, 34, **35** b. **55**, 56, **57** c. **11**, 12, **13**

d. **38**, 39, **40** e. **83**, 84, **85** f. **89**, 90, **91**

5. What comes in between?

a. 35 b. 73 c. 40 d. 26 e. 22 f. 98

6. Write in expanded form. One has been done for you.

a. $20+3=23$ b. $37=30+7$ c. $86=80+6$

d. $44=40+4$ e. $90=90+0$ f. $79=70+9$

7. Write the number in short form. One has been done for you.

a. $10+2=12$ b. $30+3=33$ c. $70+6=76$

d. $70+8=78$ e. $90+7=97$ f. $40+0=40$

8. Arrange the following in ascending and descending order.

Ascending order : 15, 18, 25, 64 Descending order : 64, 25, 18, 15

Exercise 1.1

1. Complete the chart given below (101 to 200).

101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200

2. Read aloud the numbers and write their number names. One has been done for you.

a. One hundred and twenty four
b. One hundred and twenty six
c. One hundred and eighteen
d. One hundred and thirteen
e. One hundred and eight
f. One hundred and thirty seven

3. Read the number names and write the number in figures.

a. 149 b. 170 c. 162 d. 109

Exercise 1.2

1. Complete the chart given below (101 to 200).

201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290
291	292	293	294	295	296	297	298	299	300

2. Fill in the spaces below.

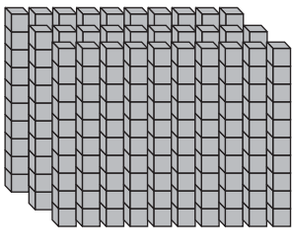
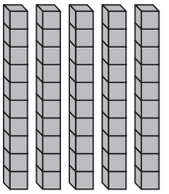
b. 202
c. Two hundred and eighty nine
d. Two hundred and fifty seven
e. 272
f. 263
g. Two hundred and thirteen
h. Two hundred and eighty
i. Two hundred and nineteen
j. 300

3. Complete the chain by filling in the missing numbers.

a.	164	165	166	167	168	169	170	171	172	173
b.	238	239	240	241	242	243	244	245	246	247
c.	186	187	188	190	191	192	193	194	195	196
d.	200	201	202	203	204	205	206	207	208	209

NUMBERS 201 - 300

Count in hundreds, tens and ones. Then write the numbers in words and figures in the space provided. One has been done for you.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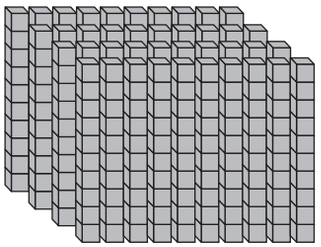
H	T	O
3	5	1

3 hundreds **5** tens **1** ones = Three hundred and fifty one



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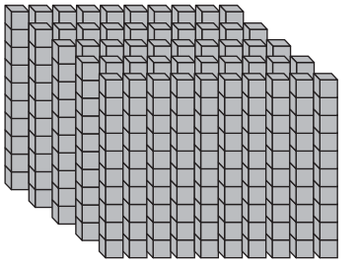
H	T	O
4	1	6

4 hundreds **5** ten **1** ones = Four hundred and sixteen



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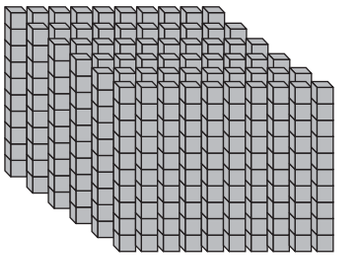
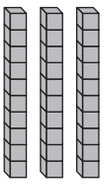
H	T	O
5	0	0

5 hundreds **0** ten **0** ones = Five hundred



6 hundreds



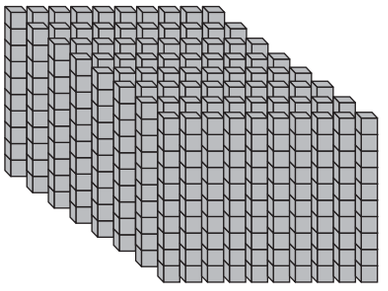
3 tens

4 ones

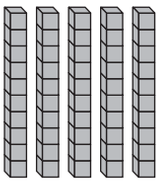
=

H	T	O
6	3	4

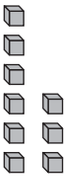
Six hundred and thirty four



8 hundreds



5 tens



9 ones

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H	T	O
8	5	9

Eight hundred and fifty nine

Exercise 1.3

1. Write the numbers that comes after the given numbers.

a. 744 745 746 747 748 749 750 751

b. 931 932 933 934 935 936 937 938

c. 405 406 407 408 409 410 411 412

d. 966 967 968 969 970 971 972 973

e. 422 423 424 425 426 427 428 429

2. Fill in the boxes.

a. 130 131 132 133 134 135 136 137 138 139

b. 250 251 252 253 254 255 256 257 258 259

c. 320 321 322 323 324 325 326 327 328 329

d. 440 441 442 443 444 445 456 451 448 449

e. 990 991 992 993 994 995 996 997 998 999

3. Write the following numbers in figures.

a. 674 b. 798 c. 289 d. 990 e. 846

4. Write the number names for the following.

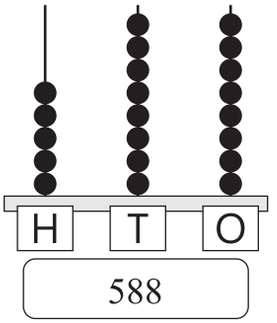
a. Nine hundred and eighty seven
b. Five hundred and sixty two
c. Three hundred and forty five
d. One hundred and twelve
e. Nine hundred and five

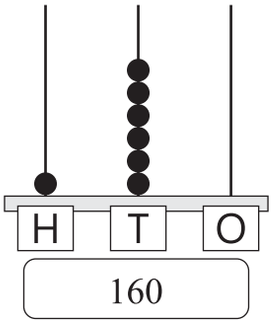
Exercise 1.4

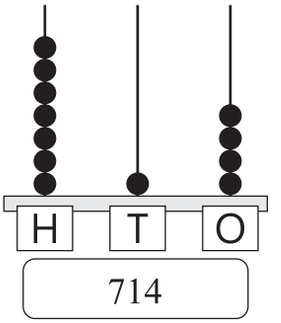
1. Look at how many hundreds, tens and ones are on the abacus and write the number in the box.

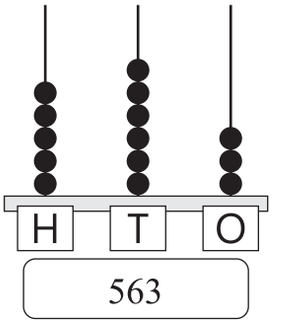
a. 515 b. 375 c. 272 d. 952 e. 893 f. 251
g. 155 h. 876

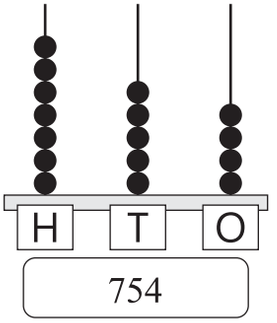
2. Look at the numbers in the box and draw the beads on the abacus to represent hundreds, tens and ones.

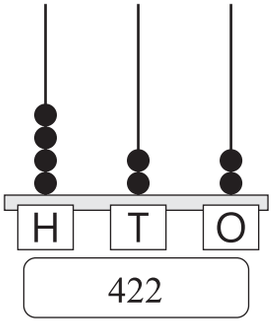
a. 

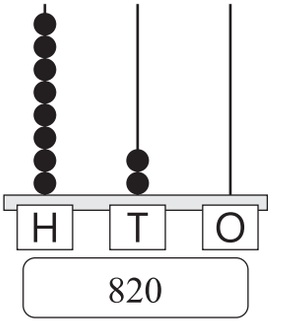
b. 

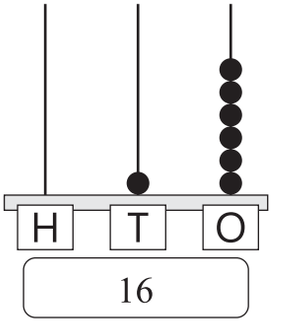
c. 

d. 

e. 

f. 

g. 

h. 

One Step Ahead

1. Complete the following.

(a) 1342, 1343, 1344, 1345, 1346 (b) 3400, 3401, 3402, 3403, 3404
(c) 9200, 9201, 9202, 9203,9204 (d) 8600, 8601, 8602, 8604
(e) 4627, 4628, 4629, 4630, 4631

2. Write the following in the words.

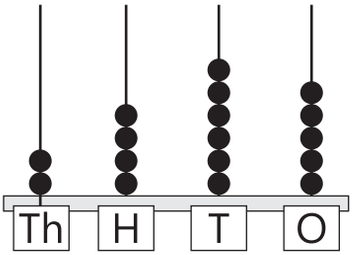
(a) Seven thousand three hundred twenty eight
(b) Two thousand eight hundred ninety nine
(c) Eight thousand twenty nine
(d) Five thousand eighty nine
(e) One thousand two hundred

3. Write the following in figure.

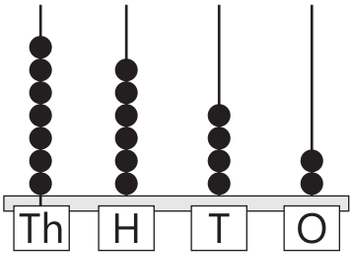
(a) 2380 (b) 1800 (c) 3714 (d) 4269 (e) 5620

4. Draw beads on the abacus to represent the number.

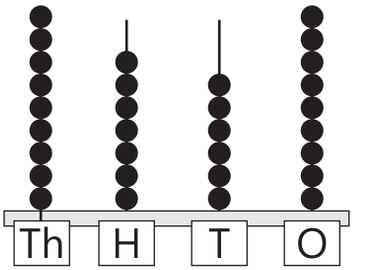
a.



b.



c.



Chapter-2 Working with Numbers

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Working with 3-digit number before, after, between, Expanded form, place values and face value, ascending and descending order,	Students will be able to work with numbers.	Activity worksheet based on 3-digit number to be done. Give 5 number cards (3digit) to the students to arrange in ascending/ descending order. 125 265 342 743 633	Fill in the blanks 325 = 300 + ___ + 5
Ordinal numbers upto twentieth .	Students will be able to identify ordinal number	Students can be made to stand in a line, and ask questions like who is the first position?	
Even and odd number	Students will be able to identify numbers as even or odd.	Numbers can be shown on flash cards. The children can be asked to identify as odd or even	
Formation of number from given digits.	Be able to forms largest and smallest number from given digits	Prepare cut outs of numbers ⓪ ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ Give 3 cut outs to the children and ask them to make the largest/smallest the number from the given digits.	What is the great 3 digit number?

Exercise 2.1

1. Write the number that comes after:

a. 226 b. 838 c. 491 d. 800 e. 406 f. 1000
g. 210 h. 608 i. 400

2. Write the number that comes before:

a. 781 b. 299 c. 784 d. 488 e. 439 f. 632
g. 856 h. 373 i. 528

3. Write the number that comes in between:

a. 465 b. 703 c. 866 d. 400 e. 706 f. 790

ACTIVITY WORKSHEET

In the table can you find?

1. 665 2. 236 3. 780 4. 314 5. 191 6. 505 7. 222
8. 400 9. 159 10. 314

Exercise 2.2

1. Fill in the boxes with the place value and face value of the digits underlined.

		P.V	F.V			P.V	F.V
b.	(289)	(9)	(9)	c.	(37)	(30)	(7)
d.	(648)	(8)	(8)	e.	(81)	(1)	(1)

2. Write the place value or face value (as directed) for the following numbers.

a. 7 b. 8 c. 7 d. 80

Exercise 2.3

1. Compare the numbers and put the correct sign >, <, < or =.

a. > b. < c. < d. > e. < f. >
g. < h. > i. < j. > k. = l. <

2. Circle the smallest number.

a. (242) 734 832 b. (142) 241 189

3. Circle the greatest number.

a. 964 b. 777

4. Arrange the following in ascending order. One has been done for you.

b. 111, 300, 364, 432
c. 265, 707, 770, 987
d. 52, 135, 255, 265

5. Arrange the following in descending order. One has been done for you.

b. 391, 321, 303, 128
c. 705, 358, 254, 156
d. 769, 429, 368, 112

ORDINAL NUMBERS

Observe the picture above and fill in the blanks using the words given below.

(b) **Duck** is at the 10th place.
(c) Tiger is at **4th** place.
(d) Who is last? **cow**
(e) Which animal is in the 9th position? **Goat**

ACTIVITY WORKSHEET

Circle the objects to form pairs. Write the number and state whether odd or even. One has been done for you.

b. 2, Even c. 12, Even d. 7, Odd e. 15, Odd f. 10, Even
g. 25, Odd

Exercise 2.4

1. Study the building. Then use ordinal numbers to answer each questions.

a. 14th floor b. 2 floors c. 5th, 14th d. 6 floors e. 7 floors
f. 2nd, 6th, 8th g. 1st floor

2. Build the numbers using the given digits in each of the following.

a. 84 b. 982 c. 357 d. 79

3. Circle the odd numbers.

a. 37, 89, 507 b. 109, 865

4. Circle the even numbers.

a. 282, 342 b. 182, 900

ONE STEP AHEAD

1. Arrange in ascending order.

a. 1433 2462 3497 5920
b. 4349 6315 7000 7466

2. Use >, < or =.

a. < b. < c. < d. < e. =

3. Form the greatest 4 digit number using the digits 2, 7, 4, 9.

9742

4. Circle the greatest number.

a. (6492) 649 5432 6049
b. 1267 (8349) 6422 1877

5. Circle the smallest number.

a. 6244 (1827) 1933 6244
b. (1349) 6277 1877 6499

Test Yourself-4

1. Two hundred and eighty five
2. 36 < 63 456 < 749
3. 800, 8
4. 21, 86, 87, 105, 213

5. 147, 148, 149 **6.** No

7. 648, 649, 650, 651, 652, 653, 654, 655 **8.** 840

9. 245 **10.** 999

Chapter-3 Addition

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Addition of numbers (2 digit) with out regrouping and with number line	Students will be able to do addition of two digit numbers	Worksheet based on 2-digit addition can be done	6 + 22 = _____ 16 + 22 = _____
Addition of 2 digit number with regrouping and addition of 3 digit number. Concept of zero	Students will be able to add 2 digit number, able to add zero to a number, and addition of 3 digit numbers	Worksheet on regrouping sums concept of regrouping to be explained.	26 + 13 + 24 = _____ 22 + _____ = 22
Addition of 3 digits numbers Word problems	Can solve problems of addition in daily life situation.	Ask simple questions like. If you go to the stationery shop and buy books worth ₹56 and pencils worth ₹16, how much did you spend?	How many total days are there in March and April?

LOOK BACK

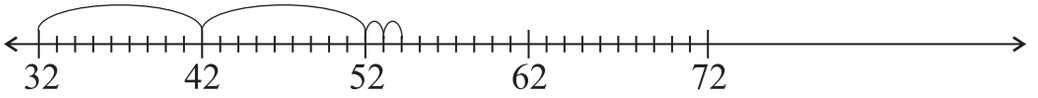
Add the following numbers:

1. 87 2. 107 3. 49 4. 70 5. 127 6. 85

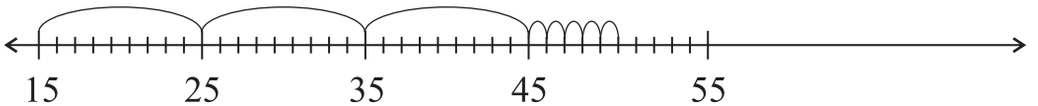
Do it yourself

Add the following using number line.

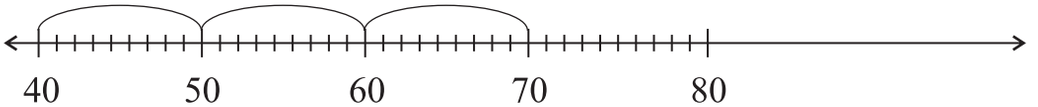
1. 32 + 22 = 54



2. 15 + 35 = 50



3. 40 + 30 = 70



Exercise 3.1

1. Add the following:

a.

T	O
1	2
+ 3	7
4	9

b.

T	O
(1) 3	8
+ 2	2
6	0

c.

T	O
(1) 3	5
+ 2	5
6	0

d.

T	O
(1) 1	9
+ 6	4
8	3

e.

T	O
(1) 2	7
+ 5	4
8	1

f.

T	O
(1) 6	4
+	8
7	2

g.

T	O
(1) 8	6
+ 1	4
1 0	0

h.

T	O
(1) 3	6
+ 4	8
8	4

2. Fill in the boxes:

a. 26 b. 0 c. 37 d. 0

Exercise 3.2

1. Add the following numbers.

a.

H	T	O
	(1) 2	5
+	8	7
1	2	2

b.

H	T	O
	(1) 6	5
+	7	7
1	4	2

c.

H	T	O
	9	2
+	3	7
1	2	9

2. Add the following numbers.

a.

T	O
4	2
3	6
+ 1	1
8	9

b.

T	O
(2) 3	6
1	8
+	9
6	3

c.

T	O
(1) 1	7
2	2
+ 1	5
5	4

d.

T	O
(1) 6	8
2	4
+ 2	8
1 2	0

e.

T	O
(1) 6	2
1	3
+	5
8	0

f.

T	O
(1) 3	0
1	8
+ 1	2
6	0

g.

T	O
(1) 4	2
1	3
+ 2	8
8	3

h.

T	O
(1) 4	6
1	4
+ 3	0
9	0

Challenge Corner

1. $20 + 300 + 15 + 400 = 735$

2. $135 + 35 + 100 + 6 = 286$

Exercise 3.3

1. Add the numbers and write down the correct answer.

a.

H	T	O
5	3	7
+ 1	3	2
6	6	9

b.

H	T	O
2	3	1
+ 3	2	4
5	5	5

c.

H	T	O
	(1)	
6	3	6
+ 1	4	9
7	8	5

d.

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

e.

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

f.

H	T	O
(1)		
3	4	1
+ 6	9	0
1 0	3	1

g.

H	T	O
	(1)	
7	2	7
+	4	7
7	7	4

h.

H	T	O
	3	3
+ 1	5	3
1	8	6

i.

H	T	O
	(1)	
2	1	2
6	3	6
+	3	2
8	8	0

j.

H	T	O
(1)		
1	4	5
3	3	0
+ 5	6	0
1 0	3	5

k.

H	T	O
	(1)	
7	0	0
	2	7
+	5	4
7	8	1

l.

H	T	O
	4	1
7	0	7
+ 1	5	1
8	9	9

2. 28 children were travelling in a bus. At the bus stop, 18 more children got into it. How many children are travelling in the bus now?

T	O
(1)	
2	8
+ 1	8
4	6

There are **46** children in this bus.

3. Tina read 114 pages today and 129 pages yesterday. How many pages has she read altogether?

T	O
1	1 4
+ 1	2 0
2	3 4

Tina read **234** pages altogether.

4. There are 62 frogs in a pond and 28 frogs on the grass. How many frogs are there altogether?

T	O
6	2
+ 2	8
9	0

There are **90** frogs.

5. Last month Zobi sold 140 pizzas. This month, she sold 194 pizzas. How many pizzas did she sell in two months?

H	T	O
(1)		
1	4	0
+ 1	9	4
3	3	4

Zobi sold **234** pizzas in two months.

ONE STEP AHEAD

Add the following.

1.

Th	H	T	O
2	3	(1)4	2
+ 1	0	4	9
3	3	9	1

2.

Th	H	T	O
(1)1	(1)4	(1)3	6
+ 5	9	6	6
7	4	0	2

3.

Th	H	T	O
6	(1)0	4	2
+ 1	4	9	5
7	5	3	7

4.

Th	H	T	O
(1)1	(1)4	(1)7	9
+ 1	8	7	7
3	3	5	6

5.

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

6.

Th	H	T	O
(1)5	9	(1)6	6
+ 2	8	1	9

7.

Th	H	T	O
2	4	(1)6	9
+ 6	4	2	2
8	8	9	1

8.

Th	H	T	O
(1)1	(1)5	(1)6	6
+ 2	4	9	9
4	0	6	5

9.

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

Chapter-4 Subtraction

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Subtraction of 2-digit number (without decomposing)	Students will be subtract a number from a given number	Worksheet on 2-digit subtraction can be done	Subtract 82 from 99.
Subtraction of a 2-digit number (with decomposition)	Students will be able to borrow and subtract numbers.	Borrowing of 1 less and subtracting needs to be explained. A video can be shown on borrow and subtract.	3 6 –2 7 _____
Word problem based on subtraction		Show the children a book of 100 pages. Ask them if they read 45, how much more pages are left to read?	If you get ₹50 as pocket money and you spend ₹25, how much is left?

Exercise 4.1

1. Subtract the following:

a.

T	O
3	6
– 2	3
1	3

b.

T	O
6	7
– 6	1
0	6

c.

T	O
6	5
– 1	3
5	2

d.

T	O
9	9
– 1	5
8	4

e.

T	O
7	2
– 4	1
3	1

f.

T	O
9	5
– 5	4
4	1

g.

T	O
8	3
– 1	0
7	3

h.

T	O
6	8
– 4	3
2	5

i.

T	O
6	7
–	4
6	3

j.

T	O
7	3
– 4	3
3	0

k.

T	O
9	8
– 2	5
7	3

l.

T	O
8	8
– 3	5
5	3

2. Subtract the following 3 digit numbers:

a.

H	T	O
2	6	4
–	3	2
2	3	2

b.

H	T	O
7	6	5
– 5	2	2
2	4	3

c.

H	T	O
7	3	4
– 2	3	1
5	0	3

d.

H	T	O
7	5	9
– 1	2	8
6	3	1

e.

H	T	O
7	3	5
– 3	1	4
4	2	1

f.

H	T	O
8	7	2
– 7	2	0
1	5	2

g.

H	T	O
5	9	7
–	7	7
5	2	0

h.

H	T	O
8	6	5
– 5	2	4
3	4	1

Exercise 4.2

1. Subtract the following:

a.

T	O
(6)	(1)
~~7~~	2
– 2	4
4	8

b.

T	O
(2)	(1)
~~3~~	5
– 1	6
1	9

c.

T	O
(8)	(1)
~~9~~	1
– 4	8
4	3

d.

T	O
(3)	(1)
~~4~~	8
– 2	9
1	9

e.

T	O
4	1
~~5~~	6
– 2	8
2	8

f.

T	O
7	1
~~8~~	0
– 4	5
3	5

g.

T	O
5	1
~~6~~	6
– 5	8
0	8

h.

T	O
8	1
~~9~~	4
– 2	7
6	7

i.

H	T	O
4	1	8
– 3	0	9
1	0	9

j.

H	T	O
	2	1
4	~~3~~	6
– 1	1	8
3	1	8

k.

H	T	O
	3	1
8	~~4~~	2
– 7	3	8
1	0	4

l.

H	T	O
	3	1
2	~~4~~	5
– 1	3	6
1	0	9

2. Arrange in columns and subtract.

a.

T	O
2	8
– 1	9
0	9

b.

T	O
7	4
– 3	6
3	8

c.

H	T	O
4	13	
~~5~~	3	3
– 1	5	2
3	8	1

d.

H	T	O
6	15	17
~~7~~	~~5~~	~~7~~
– 2	8	9
4	7	8

Do it yourself

Fill in the boxes.

1. 5 – 0 = **5**
2. 28 – 0 = **28**
3. 75 – **0** = 75
4. **36** – 0 = 36

Exercise 4.3

1. Rishi could see 36 rabbits. 23 rabbits hop away. How many rabbits are left?

T	O
3	6
– 2	3
1	3

There are **13** rabbits left.

2. There were 140 balloons on my birthday. 32 balloons pop. How many are left?

H	T	O
1	3	0
	– 3	2
1	0	8

108 balloons are left.

3. Jane is saving money to buy a racing toy car that costs ₹290. She has already saved ₹54. How much more does she have to save to buy the toy?

	H	T	O
	2	8 (8)	0 (10)
–		5	4
	2	3	6

Jane has to save **₹236** more.

4. Rishav reads 285 pages in one week and Ritika reads 896 pages in one week. Who read more and by how much?

	H	T	O
	8	9	6
–	2	8	5
	6	1	1

Ritika has read more pages by **611** pages.

ONE STEP AHEAD

Subtract the following.

1.

	Th	H	T	O
	8	9	2	0
–	1	8	7	0
	7	0	5	0

2.

	Th	H	T	O
	8	8	4	9
–	7	4	1	7
	1	4	3	2

3.

	Th	H	T	O
	8	2	6	6
–	1	1	4	4
	7	1	2	2

4.

	Th	H	T	O
	9	0	8	0
–	4	7	8	9
	4	2	9	1

5.

	Th	H	T	O
	9	8	7	6
–	1	2	4	4
	8	6	3	2

6.

	Th	H	T	O
	8	0	4	9
–	7	0	2	8
	1	0	2	1

7.

	Th	H	T	O
	2	4	7	7
–	1	3	6	9
	1	1	0	8

8.

	Th	H	T	O
	3	4	0	0
–	1	2	9	9
	2	1	0	1

9.

	Th	H	T	O
	8	4	7	7
–	7	3	2	2
	1	1	5	5

Test Yourself-2

1. Solve the following.

a.

	H	T	O
	1	9	7
+		6	5
	2	6	2

b.

	H	T	O
	8	3	6
–	2	6	8
	5	6	8

c.

	H	T	O
		4	8
+	1	6	
		6	4

d.

H	T	O
	3	0
–	1	8
	1	2

e.

H	T	O
	2	4	5
+	1	3	7
	3	8	2

f.

H	T	O
	1	9	0
+	2	5	0
	4	4	0

2. Betty has 74 crayons. She gives away 25 of them to her brother. How many crayons does Betty have now?

T	O
7	4
– 2	5
4	9

Betty has **49** crayons left.

3. 18 children were present in a party. After an hour, 12 more children joined in. How many children are there in the party now?

T	O
1	8
– 1	2
3	0

There are **30** children in teh party.

Chapter-5 Multiplication

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Concept of multiplication as repeated addition and multiplication on number line.	Students should be able to understand repeated addition is multiplication.	Begin the class by saying "if 5 students glues me 2 flowers each, how much will I have?" Explain 2 + 2 + 2 + 2 + 2 = 5 times 2 = 10 Also show jumping 5 steps of 2 on the number line Ask the students to stand in groups of 5 and count how many groups are farmed 8 groups of 5 is 8 × 5 = 40	8 + 8 + 8 + 8 + 8 + 8 = times ____ = _____ Worksheet: 2 × 8 = 7 × 3 = 5 × 7 = and 50 cm.
Multiplication Tables (1 to 10)	Students should be able to do 1 digit × 1 digits with tables	Encourage learning of tables upto 10.	

Multiplication by 0 and 1		Worksheet on multiplication by zero and one to be done. Fill in the empty cells. x 2 0 5 8 16 3 15 1 0	60 × 0 = _____ 1 × 9 = _____ 8 × 1 = _____
Multiplication of a 2 digit number by a 1 digit number and 3 digit by i digit by arranging vertically. Word problems on multiplication	Children will be able to multiply a two digit number with 1 digit.	Worksheet based on 2d × 1d...eg 2 6 × 7 Class activity involving real life sceneries on multiplication.	27 × 9 = 36 × 7 = In a class of 40 students, each students conhbutes ₹5 for flood relief. What is the total contribution?

ACTIVITY WORKSHEET

Fill in the blanks. One has been done for you.

2 + 2 + 2 + 2 + 2 + 2

6 groups of 2 balls

= 6 × 2

= **12** balls

3 + 3 + 3

3 groups of 3 ice-creams

= 3 × 3

= **9** ice-creams

5 + 5 + 5

3 groups of 5 crayons

= 3 × 5

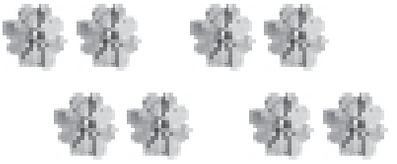
= **15** crayons

3 + 3 + 3 + 3 + 3 + 3

6 groups of 3 bananas

= 6 × 3

= **18** bananas



2 + 2 + 2 + 2

4 groups of 2 flowers

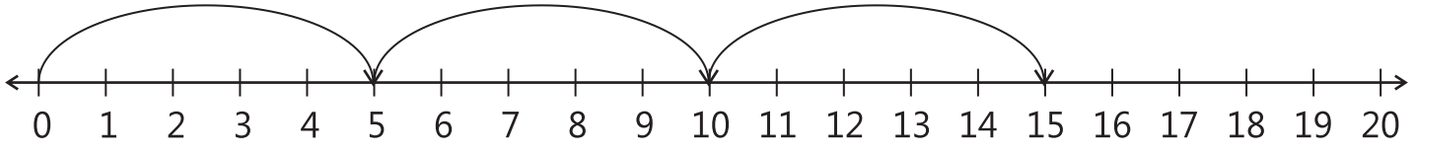
= 4 × 2

= **8** flowers

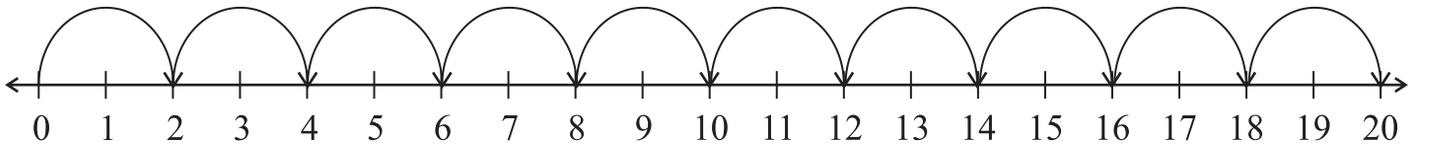
Exercise 5.1

Show the multiplication statements on the number line. One has been done for you.

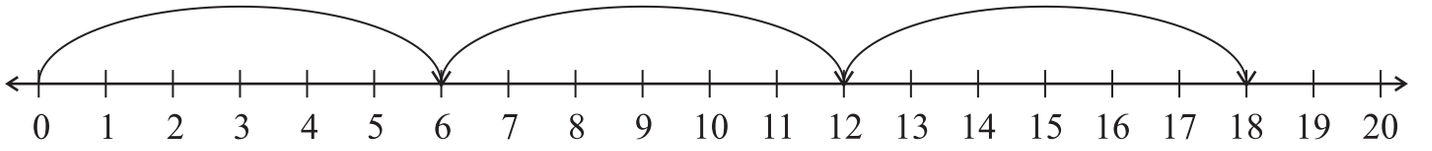
1. $3 \times 5 =$ 15



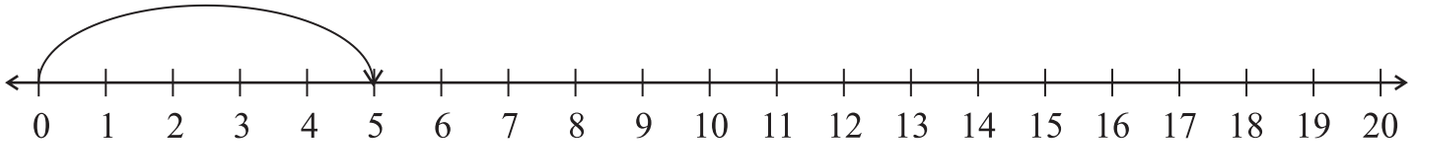
2. $10 \times 2 =$ 20



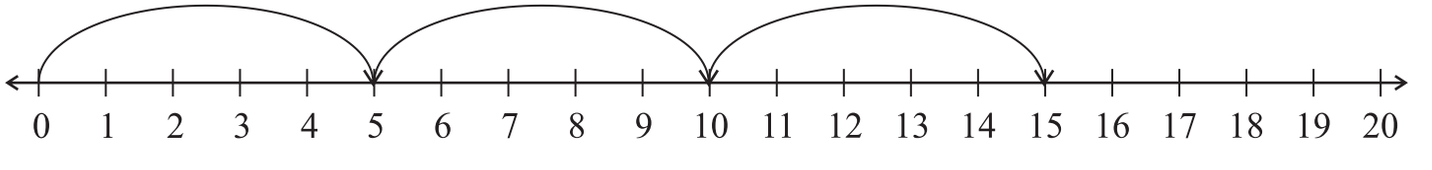
3. $3 \times 6 =$ 18



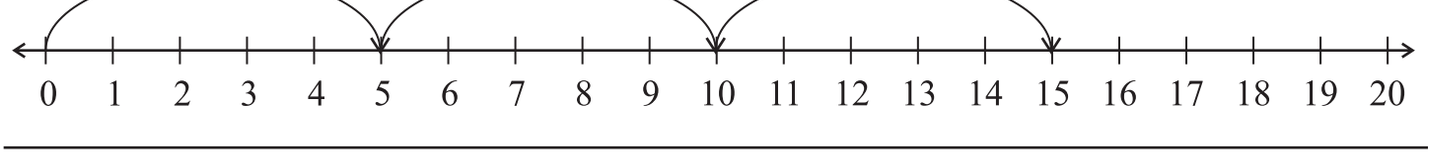
4. $5 \times 4 =$ 20



5. $7 \times 2 =$ 14



6. $3 \times 3 =$ 9



Exercise 5.2

1. Multiply the following vertically using tables.

a. 12 b. 8 c. 35 d. 16 e. 45 f. 14

g. 4 h. 24 i. 3

2. Fill in the blanks.

a. 8 b. 0 c. 9 d. 3 e. 0

f. 1 g. 25 h. 3 i. 18 j. 21

k. 0 l. 0

Exercise 5.3

1. Multiply the following.

a.

T	O
1	3
×	2
2	6

b.

T	O
2	2
×	3
6	6

c.

T	O
3	4
×	2
6	8

d.

T	O
4	2
×	4
1 6	8

e.

T	O
1	3
×	3
3	9

f.

T	O
3	1
×	5
1 5	5

2. Arrange vertically and multiply.

a.

T	O
2	4
×	1
2	4

b.

T	O
4	2
×	2
8	4

c.

T	O
1	1
×	5
5	5

d.

H	T	O
2	0	1
×		4
8	0	4

e.

H	T	O
1	4	2
×		2
2	8	4

f.

H	T	O
	8	0
×		4
3	2	0

Exercise 5.4

1. Read and solve.

a. $6 \times 2 = 12$ colour pencils

b. $3 \times 4 = 12$ legs

c. $12 \times 4 = 48$ eggs.

T	O
1	2
×	4
4	8

2. A plate contains 10 cookies. There are 5 plates. How many cookies are there?

$10 \times 5 = 50$

There are **50** cookies.

T	O
1	0
×	5
5	0

3. A story book contains 56 pages. How many pages are there in 2 books?

$56 \times 2 = 112$

There are **112** pages

H	T	O
	5	6
×		2
1	1	2

4. A book shelf contains 43 books. If there are 3 shelves. How many books are there in total?

$43 \times 3 = 129$

There are **129** books on 3 shelves

H	T	O
	4	3
×		3
1	2	9

Exercise 5.5

Multiply the following.

a.

H	T	O
	2	5
×		6
1	5	0

b.

H	T	O
	1	8
×		7
1	2	6

c.

H	T	O
	2	2
×		9
1	9	8

d.

H	T	O
	1	3
×		8
1	0	4

e.

H	T	O
	2	6
×		7
1	8	2

f.

H	T	O
	3	0
×		9
2	7	0

g.

H	T	O
	2	3
×		6
1	3	8

h.

H	T	O
	1	4
×		8
1	1	2

i.

H	T	O
	4	2
×		9
3	7	8

One Step Ahead

Multiply the following.

1.

	H	T	O
	3	1	2
	×		7
2	1	8	4

2.

	H	T	O
	1	5	4
	×		4
	6	1	6

3.

	H	T	O
	5	4	1
	×		6
3	2	4	6

4.

	H	T	O
	4	3	3
	×		7
3	0	3	1

5.

	H	T	O
	3	9	2
	×		6
2	3	5	2

6.

	H	T	O
	4	9	2
	×		5
2	4	6	0

7.

	Th	H	T	O
	5	6	1	0
		×		2
1	1	2	2	0

8.

Th	H	T	O
5	1	4	7
	×		1
5	1	4	7

9.

Th	H	T	O
4	8	0	3
	×		2
9	6	0	6

10.

	Th	H	T	O
	3	1	5	0
		×		4
1	2	6	0	0

11.

	Th	H	T	O
	1	6	1	0
		×		5
8	0	7	5	0

12.

Th	H	T	O
1	9	0	6
	×		2
3	8	1	2

Chapter-6 Division

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Division as a concept of repeated subtraction and using tables.	Children will be able to divide as repeated subtraction and also with tables	Take 10 pencils/straws or any object. Distribute 2 objects to the students. Ask the students I had 10 pencils I gave 2 to each.	12 ÷ 6 = _____ 18 ÷ 3 = _____

		How many children got the pencils?" Explain the concept of repeated subtraction Explain how using tables division can be performed. How many times 2 is 5? 2 × ? = 10.	
Word Problem	Learners will be able to solve be able to solve real life problems involving division.	Take 60 beads and ask them to bead them into 60 bracelet. How many beads in each bracelet? 60 ÷ 6 = 10	In a party there were 40 cookies. If 8 people were there how many cookies did each eat?

ACTIVITY WORKSHEET

Circle the groups as shown and fill in the blanks.

a. $10 \div 5 = 2$ b. $28 \div 4 = 7$ c. $30 \div 3 = 10$ d. $24 \div 4 = 6$

Exercise 6.1

1. Fill in the missing parts of multiplication and division facts.

a. 2 or 2 b. 2 or 2 c. 3 or 3

2. Divide the following.

a. $3 \overline{)24}$ → 8

b. $4 \overline{)20}$ → 5

c. $4 \overline{)112}$ → 3

d. $5 \overline{)35}$ → 7

e. $4 \overline{)40}$ → 10

f. $2 \overline{)20}$ → 10

g. $2 \overline{)14}$ → 7

h. $5 \overline{)50}$ → 10

i. $1 \overline{)10}$ → 10

3. Divide the following orally.

a. 3 b. 6 c. 10 d. 7 e. 2 f. 4

ACTIVITY WORKSHEET

1. Sami baked 16 chocolate cupcakes. She has to distribute it equally among her 4 children. How many cupcakes will each child get?

$4 \overline{)16}$ → 4

Each child gets **4** cupcakes.

2. Roohi bought 18 fish. She distributed and kept equal number of fish in 3 tanks. How many fish are there in each tank?

$3 \overline{)18}$ → 6

Each friends **3** donuts.

Exercise 6.2

2. 12 donuts are to be shared equally among 4 friends. How many donuts will each friend get?

$$4 \overline{)\,12}$$
$$\boxed{3}$$

Each friends gets **3** donuts.

3. 21 pencils it to be equally distributed among 3 children. How many pencils will each child get?

$$3 \overline{)\,21}$$
$$\boxed{7}$$

Each child will get **7** pencils.

4. Vartika has 50 beads. She has to make 5 necklaces with equal number of beads. How many beads will she use in each necklace?

$$5 \overline{)\,50}$$
$$\boxed{10}$$

Vartika uses **10** beads in each necklace.

Exercise 6.3

Divide the following.

a. $2\overline{)44}$ → 22; $-4\downarrow$; 04; -4; 00

b. $3\overline{)99}$ → 33; $-9\downarrow$; 09; -9; 00

c. $9\overline{)45}$ → 5; -45; 00

d. $4\overline{)404}$ → 101; $-40\downarrow$; 04; -4; 0

e. $3\overline{)936}$ → 312; $-9\downarrow$; 03; $-3\downarrow$; 06; -6; 0

f. $2\overline{)262}$ → 131; $-2\downarrow$; 06; $-6\downarrow$; 02; -2; 0

g. $2\overline{)202}$ → 101; $-2\downarrow$; 00; $-0\downarrow$; 02; -2; 0

h. $4\overline{)124}$ → 31; $-12\downarrow$; 04; -4; 0

i. $3\overline{)333}$ → 111; $-3\downarrow$; 03; -3; 03; -3; 0

Exercise 64

Divide the following.

a.
$$\begin{array}{r} 114 \\ 3\overline{)343} \\ -3\downarrow \\ \hline 4 \\ 3\downarrow \\ \hline 13 \\ -12 \\ \hline 1 \end{array}$$

Quotient = 114
Remainder = 1

b.
$$\begin{array}{r} 112 \\ 4\overline{)449} \\ -4\downarrow \\ \hline 4 \\ 4\downarrow \\ \hline 9 \\ 8 \\ \hline 1 \end{array}$$

Quotient = 112
Remainder = 1

c.
$$\begin{array}{r} 36 \\ 5\overline{)182} \\ -15\downarrow \\ \hline 32 \\ 30 \\ \hline 2 \end{array}$$

Quotient = 36
Remainder = 2

d.
$$\begin{array}{r} 111 \\ 6\overline{)668} \\ -6\downarrow \\ \hline 6 \\ -6\downarrow \\ \hline 8 \\ -6 \\ \hline 2 \end{array}$$

Quotient = 111
Remainder = 2

e.
$$\begin{array}{r} 118 \\ 5\overline{)593} \\ -5\downarrow \\ \hline 9 \\ -5\downarrow \\ \hline 43 \\ 40 \\ \hline 3 \end{array}$$

Quotient = 118
Remainder = 3

f.
$$\begin{array}{r} 9 \\ 4\overline{)37} \\ -36 \\ \hline 1 \end{array}$$

Quotient = 9
Remainder = 1

g.
$$\begin{array}{r} 163 \\ 5\overline{)815} \\ -5\downarrow \\ \hline 31 \\ -30\downarrow \\ \hline 15 \\ -15 \\ \hline \times\times \end{array}$$

Quotient = 163
Remainder = 0

h.
$$\begin{array}{r} 83 \\ 3\overline{)249} \\ -24\downarrow \\ \hline 9 \\ -9\downarrow \\ \hline 0 \end{array}$$

Quotient = 83
Remainder = 0

i.
$$\begin{array}{r} 371 \\ 2\overline{)743} \\ -6\downarrow \\ \hline 14 \\ -14\downarrow \\ \hline 3 \\ -3 \\ \hline 1 \end{array}$$

Quotient = 371
Remainder = 1

One Step Ahead

Divide the following.

1. $4\overline{)932}$ = 233

	932
−8↓	|
	13 |
−12↓	
	12
	−12
	00

Quotient = 23
Remainder = 0

2. $8\overline{)168}$ = 21

	168
−16↓	
	8
	8
	×

Quotient = 21
Remainder = 0

3. $7\overline{)777}$ = 111

	777
−7↓	|
	7 |
−7↓	
	7
	−7
	×

Quotient = 111
Remainder = 0

4. $6\overline{)432}$ = 72

	432
−42↓	
	12
	−12
	××

Quotient = 72
Remainder = 0

5. $8\overline{)165}$ = 20

	165
−16↓	
	5
	−0
	5

Quotient = 20
Remainder = 5

6. $9\overline{)355}$ = 39

	355
−27↓	
	85
	−81
	4

Quotient = 39
Remainder = 4

7. $7\overline{)780}$ = 111

	780
−7↓	|
	8 |
−7↓	
	10
	−7
	×3

Quotient = 111
Remainder = 3

8. $4\overline{)647}$ = 161

	647
−4↓	|
	24 |
−24↓	
	7
	4
	3

Quotient = 161
Remainder = 3

9. $6\overline{)237}$ = 39

	237
−18↓	
	57
	−54
	3

Quotient = 39
Remainder = 3

Test Yourself-3

1. Multiply using tables.

a. 12 b. 35 c. 21 d. 0 e. 10 f. 8

2. Multiply the following.

a. 126 b. 66 c. 368

3. Fill in the boxes.

a. 6 b. 6 c. 10 d. 5

4. Divide the following.

a. $4\overline{)24}$ → 6

b. $5\overline{)40}$ → 8

c. $3\overline{)375}$ → 125

$-3\downarrow$

07

$-6\downarrow$

15

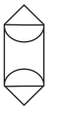
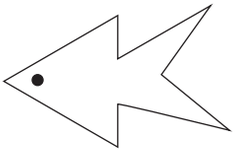
-15

00

5. Divide the following.

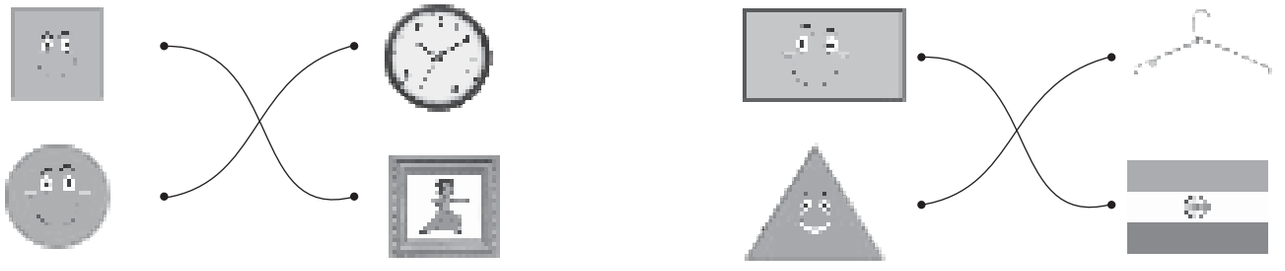
a. 8 b. 7 c. 3 d. 9

Chapter-7 Shapes

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Different shapes. (2d and 3D) shapes Straight and curved edges, of a shape	To enable students to identify the different shapes. To know about the curved edges and straight edges and comers.	Activity worksheet like match the shapes with the given objects eg. jokercap with cone Objects can be shown to check their knowledge about shapes.	Is box and dice of same shape? Identify the following figures Dice, Sun. Also say the number of straight edges/curved edges.
Concept of slanting, vertical, horizantal and curved line	To enable students to identify the types of lines.	A figure can be shown  Count the number of curved, straight, vertical and horizontal lines.	How many slanting lines does the figure contain? 

ACTIVITY WORKSHEET

Match up items that are the same shape.

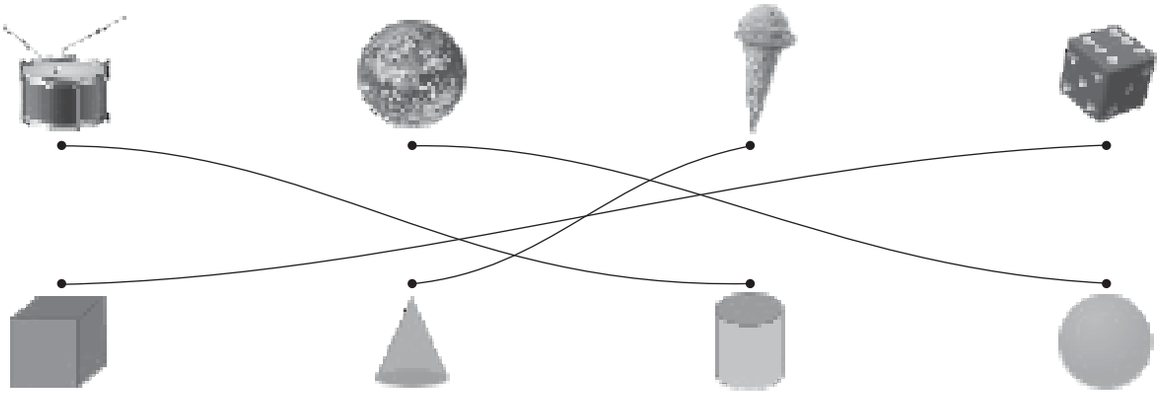


Exercise 7.1

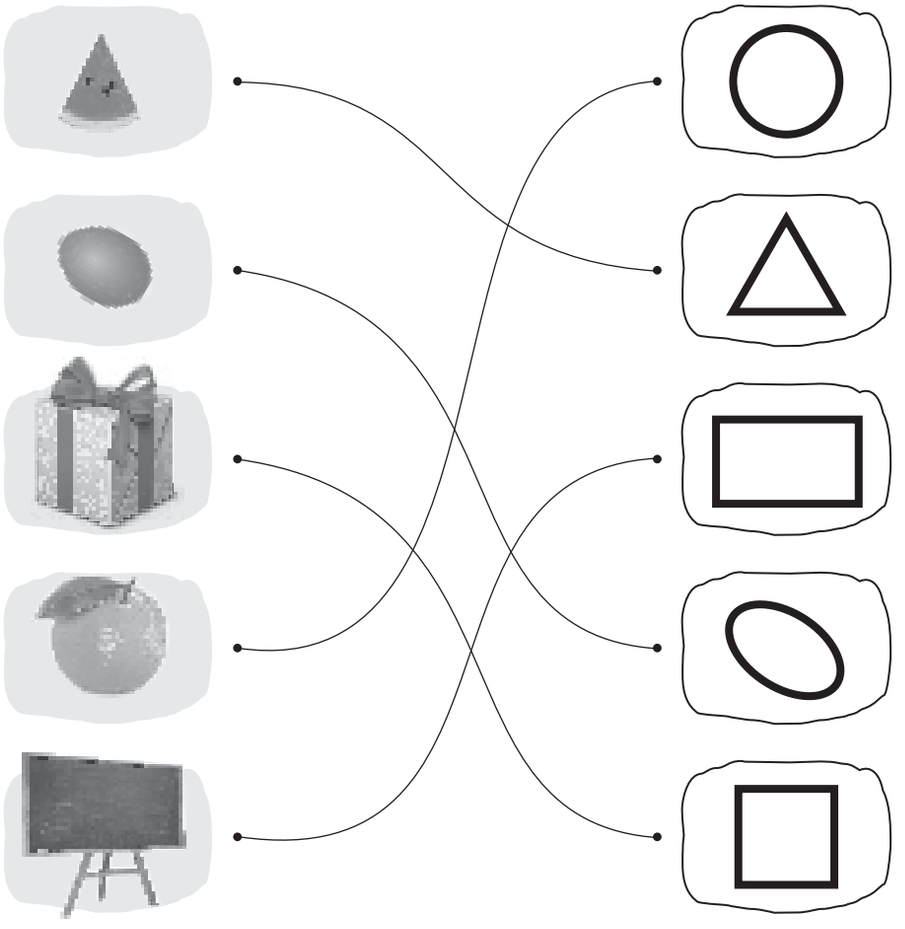
1. Answer the following questions.

a. 8 b. 6 c. cuboid d. 2 e. 2 f. zero g. no

2. Draw lines from the real world items to their matching shapes.



3. Match objects on the left to the corrects shapes on the right.



Exercise 7.2

1. Identify if each of the following is a straight (horizontal, vertical or slanting) or a curved line.

a. slanting b. curved c. vertical d. horizontal e. slanting
f. curved g. curved h. vertical i. slanting

2. State the number of horizontal, slanting, vertical and curved lines.

a. **0** Slanting lines **2** Horizontal lines
2 Vertical lines **0** Curved lines

b.	**2**	Slanting lines	**2**	Horizontal lines
	2	Vertical lines	**0**	Curved lines
c.	**2**	Slanting lines	**2**	Horizontal lines
	2	Vertical lines	**2**	Curved lines
d.	**4**	Slanting lines	**0**	Horizontal lines
	0	Vertical lines	**1**	Curved lines

3. Check the given picture and identify the type of line. State whether it is horizontal, vertical or slanting line.

b. horizontal c. horizontal d. slanting

e. Vertical f. LM

Chapter-8 Measurement

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Measuring Length of objects using non standard units	Learners will be able to measure the things with hand span, foot and arm to compare.	Ask the students to measure different object like cupboard, table in the classroom by handspan, arm, foot etc Measure the floor of your classroom with your foot (in groups).	Measure the length of your friends arm with your handspan.
Measuring of lengths of with standard units (cm and m)	Learners will be able to measure the lengths of object using ruler or measuring tape.	Measure the length of your class table using measuring tape Explain cm as a smaller unit than m. 100 cm = 1m	What is the length of your class blackboard?
Operations on lengths	Learners will be able to compare weights.	Worksheet on addition/ subtraction of lengths. 26 cm 35 cm m	A ribbon is of length 35m. If 3m of ribbon is cut off how much is left?
Comparing weights	Learners will be able to compare weights of objects with respect to other objects.	A beam balance can be shown. On one pan place 3 books and other pan place 4 blocks. Ask the students which is heavier? Now keep adding blocks to balance the beam balance. Ask the students the weights of books in terms of blocks.	Ask students about weights of objects with respect to other objects.

Measuring weights of objects using, standard units. (kg and g)	Learners will be able to measure weights of objects.	Worksheet showing beam balance with one side having object and other side weights (used by vendors) Explain kg is a bigger unit than g.	What is the approximate weight of a watermelon? 1kg = _____g
Addition and subtraction of weights.	Learners will be able to add/subtract weights.	Worksheet on Addition and subtraction and subtraction of weights. 42 g + 37 g _____	A man bought 3 kg of onions and 10 kg of potatoes. How many kg is he carrying back home.
Measuring of capacity using non-standard units.	Learners will be able to measure capacity by non-standard units.	Take jug full of water and pour the water in glasses. Ask the students the capacity of the jug is _____ glasses.	What is the capacity of a cold drink bottle with respect to a glass?
Measurement of capacity using standard units L and mL	Learners will be able to measure/tell the capacity of containers.	Explain to the students that L is a large unit than mL and 100 = mL = 1L.	The capacity of a pet bottle of cold drink is _____?
Addition and subtraction capacity	Learners will be able to add/subtract the units of capacity.	Worksheets based on add/sub to be given. 32 mL –18 mL _____	The capacity of a jug bottle 750 mL. If 250 mL of juice is consumed how much quantity of juice is left?

Exercise 8.1

1. Given below are 3 pencils measured with some clips.

a. The blue pencil is **6** clips long.

b. The red pencil is **5** clips long.

c. The yellow pencil is **11** clips long.

2. Measure the crocodiles.

a. 7 b. 2 c. 9 d. 6 e. 8

3. Fill int he blanks. One has been done for you.

a. 5 b. 4 c. 5 d. 8 e. 10 f. 5

Exercise 8.2

1. A snake was 35 m long. Now it is 87 m long. How much did the snake grow?

a.
$$\begin{array}{r} 34\text{ cm} \\ +\,80\text{ cm} \\ \hline 114\text{ cm} \end{array}$$

b.
$$\begin{array}{r} {\scriptstyle (1)} \\ 87\text{ m} \\ +\,13\text{ m} \\ \hline 100\text{ m} \end{array}$$

c.
$$\begin{array}{r} {\scriptstyle (1)} \\ 18\text{ m} \\ +\,77\text{ m} \\ \hline 95\text{ m} \end{array}$$

d.
$$\begin{array}{r} {\scriptstyle (1)} \\ 18\text{ cm} \\ +\,38\text{ cm} \\ \hline 56\text{ cm} \end{array}$$

e.
$$\begin{array}{r} 280\text{ m} \\ +\,316\text{ m} \\ \hline 596\text{ m} \end{array}$$

f.
$$\begin{array}{r} {\scriptstyle (1)} \\ 185\text{ cm} \\ +\,119\text{ cm} \\ \hline 304\text{ cm} \end{array}$$

2. Subtract the following lengths.

a.
$$\begin{array}{r} 22\text{ cm} \\ -\,11\text{ cm} \\ \hline 11\text{ cm} \end{array}$$

b.
$$\begin{array}{r} {\scriptstyle (1)}{\scriptstyle (1)} \\ 24\text{ cm} \\ -\,16\text{ cm} \\ \hline 8\text{ cm} \end{array}$$

c.
$$\begin{array}{r} 85\text{ m} \\ -\,34\text{ m} \\ \hline 51\text{ m} \end{array}$$

d.
$$\begin{array}{r} {\scriptstyle (7)}{\scriptstyle (1)} \\ 80\text{ cm} \\ -\,35\text{ cm} \\ \hline 45\text{ cm} \end{array}$$

e.
$$\begin{array}{r} 637\text{ m} \\ -\,519\text{ m} \\ \hline 118\text{ m} \end{array}$$

f.
$$\begin{array}{r} {\scriptstyle (6)}{\scriptstyle (1)} \\ 374\text{ cm} \\ -\,217\text{ cm} \\ \hline 157\text{ cm} \end{array}$$

3. Solve.

a.
$$\begin{array}{r} 82\text{ cm} \\ +\,37\text{ cm} \\ \hline 119\text{ cm} \end{array}$$

b.
$$\begin{array}{r} {\scriptstyle (7)}{\scriptstyle (1)} \\ 80\text{ m} \\ -\,36\text{ m} \\ \hline 44\text{ m} \end{array}$$

c.
$$\begin{array}{r} {\scriptstyle (8)}{\scriptstyle (1)} \\ 93\text{ cm} \\ -\,89\text{ cm} \\ \hline 4\text{ cm} \end{array}$$

Exercise 8.3

1. A snake was 35 m long. Now it is 87 m long. How much did the snake grow?

$$\begin{array}{r} 87 \\ -\,35 \\ \hline 52 \end{array}$$

The snake grew **52** m.

2. A baby giraffe was 185 cm long. It grew 34 cm in a week. What is its height now?

$$\begin{array}{r} 185 \\ +\,34 \\ \hline 219 \end{array}$$

The giraffe is **219** cm tall.

3. A ribbon was 185 cm long. After I cut off some part of ribbon, 137 cm was left. How much did I cut off?

$$\begin{array}{r} {\scriptstyle (7)\,(1)} \\ 1\,\cancel{8}\,5 \\ -\,1\,3\,7 \\ \hline 4\,8 \end{array}$$

I cut off **48** cm of ribbon.

4. A candle was 25 cm long. It melted 6 cm while burning. What is the length of the candle left?

$$\begin{array}{r} 2\,5 \\ -\,6 \\ \hline 1\,9 \end{array}$$

19 cm of candle is left.

5. Rishi bought 218 m of cloth on Monday and 218 m on Tuesday and 40 m on Wednesday. How much cloth did he buy in total?

$$\begin{array}{r} 2\,1\,8 \\ 2\,1\,8 \\ +\;4\,0 \\ \hline 4\,8\,6 \end{array}$$

Rishi bought **486** m of cloth in total.

Exercise 8.4

1. Write the weight of each object in grams.

a. 50 g b. 500 g c. 300 g d. 250 g

2. Measure the weight of each object.

a. 2 kg b. 9 kg c. 3 kg

Exercise 8.5

1. Add the following weights.

a. $\begin{array}{r} 2\,2\,6\ \text{g} \\ +\,1\,3\,2\ \text{g} \\ \hline 3\,5\,8\ \text{g} \end{array}$

b. $\begin{array}{r} 6\,0\ \text{kg}\ 6\,0\ \text{g} \\ +\,3\,5\ \text{kg}\ 3\,5\ \text{g} \\ \hline 9\,5\ \text{kg}\ 9\,5\ \text{g} \end{array}$

c. $\begin{array}{r} 4\,5\ \text{g} \\ +\,6\,9\ \text{g} \\ \hline 1\,1\,4\ \text{g} \end{array}$

d. $\begin{array}{r} {\scriptstyle (7)\,(13)} \\ 8\,\cancel{3}\ \text{kg}\ 1\,3\ \text{g} \\ +\,4\,7\ \text{kg}\ 9\,\text{g} \\ \hline 1\,3\,0\ \text{kg}\ 2\,2\ \text{g} \end{array}$

e. $\begin{array}{r} 3\,7\ \text{g} \\ +\;5\,7\ \text{g} \\ \hline 9\,4\ \text{g} \end{array}$

f. $\begin{array}{r} {\scriptstyle (1)} \\ 3\,3\ \text{kg}\ 5\,0\ \text{g} \\ +\,4\,9\ \text{kg}\ 5\,0\ \text{g} \\ \hline 8\,2\ \text{kg}\ 1\,0\,0\ \text{g} \end{array}$

2. Subtraction the following weights.

a. $\begin{array}{r} 3\,7\ \text{kg} \\ -\,1\,2\ \text{kg} \\ \hline 2\,5\ \text{kg} \end{array}$

b. $\begin{array}{r} {\scriptstyle (7)\,(1)} \\ 3\,\cancel{8}\,0\ \text{kg} \\ -\,3\,1\,3\ \text{kg} \\ \hline 6\,7\ \text{kg} \end{array}$

c. $\begin{array}{r} {\scriptstyle (3)\,(1)} \\ \cancel{4}\,8\ \text{g} \\ -\;1\,9\ \text{g} \\ \hline 2\,9\ \text{g} \end{array}$

d.
$$\begin{array}{r} {\scriptstyle (6)\,(1)} \\ \not{7}\,6\ \text{g} \\ -\ 2\ 8\ \text{g} \\ \hline 4\ 8\ \text{g} \end{array}$$

e.
$$\begin{array}{r} 2\ 1\ 9\ \text{g} \\ -\ 1\ 8\ \text{g} \\ \hline 2\ 0\ 1\ \text{g} \end{array}$$

f.
$$\begin{array}{r} {\scriptstyle (3)\,(1)} \\ \not{4}\ 6\ \text{kg} \\ -\ 3\ 9\ \text{kg} \\ \hline 7\ \text{kg} \end{array}$$

3. Arrange vertically and solve.

a.
$$\begin{array}{r} {\scriptstyle (1)} \\ \not{7}\,6\ \text{g} \\ +\ 9\ 8\ \text{g} \\ \hline 1\ 7\ 4\ \text{g} \end{array}$$

b.
$$\begin{array}{r} {\scriptstyle (3)\,(1)} \\ \not{4}\ 6\ \text{g} \\ -\ 1\ 8\ \text{g} \\ \hline 2\ 8\ \text{g} \end{array}$$

c.
$$\begin{array}{r} {\scriptstyle (7)\,(1)} \\ 1\ \not{8}\ 0 \\ -\ 2\ 5 \\ \hline 1\ 5\ 5\ \text{kg} \end{array}$$

Exercise 8.6

1. A vegetable seller had 83 kg of vegetables, out of which he sold 28 kg. Find the weight of the vegetables left with him.

$$\begin{array}{r} {\scriptstyle (7)\,(1)} \\ \not{8}\ 3\ \text{kg} \\ -\ 2\ 8\ \text{kg} \\ \hline 5\ 5\ \text{kg} \end{array}$$

55 kg of vegetables are left with him.

2. A packet of chocolate weighs 187 g and another packet weighs 164 g. Find the difference in their weights.

$$\begin{array}{r} 1\ 8\ 7\ \text{g} \\ -\ 1\ 6\ 4\ \text{g} \\ \hline 2\ 3\ \text{g} \end{array}$$

The difference in the weights is **23** g.

3. A chef used 297g of baking soda today and had used 277g yesterday. What is the total quantity of soda used by the chef in two days?

$$\begin{array}{r} {\scriptstyle (1)} \\ 2\ 9\ 7\ \text{g} \\ +\ 2\ 7\ 7\ \text{g} \\ \hline 5\ 7\ 4\ \text{g} \end{array}$$

The chef used **574** g of soda.

4. Arpita bought 27 kg of rice and 18 kg of flour. Find out the total weight that she has to carry.

$$\begin{array}{r} 2\ 7\ \text{kg} \\ +\ 1\ 8\ \text{kg} \\ \hline 4\ 5\ \text{kg} \end{array}$$

The total weights is **48** kg.

5. A basket of fruits weighs 20 kg and another basket weighs 28 kg. What is the total weight of the two baskets?

$$\begin{array}{r} 2\ 0\ \text{kg} \\ +\ 2\ 8\ \text{kg} \\ \hline 4\ 8\ \text{kg} \end{array}$$

The total weight is **48** kg.

ACTIVITY WORKSHEET

Choose the proper units of capacity with the object.

Milk

Litre

Millilitre ✓

Can

Litre

Millilitre ✓

Water Tank

Litre ✓

Millilitre

Hand Soap dispenser

Litre

Millilitre ✓

Large water container

Litre ✓

Millilitre

Juice box

Litre

Millilitre ✓

Exercise 8.7

1. Add the following capacities.

a.
$$\begin{array}{r} 100\ \text{mL} \\ +\ 50\ \text{mL} \\ \hline 150\ \text{mL} \end{array}$$

b.
$$\begin{array}{r} 32\ \text{L} \\ +\ 16\ \text{L} \\ \hline 48\ \text{L} \end{array}$$

c.
$$\begin{array}{r} 85\ \text{L} \\ +\ 35\ \text{L} \\ \hline 120\ \text{L} \end{array}$$

d.
$$\begin{array}{r} 200\ \text{mL} \\ +\ 105\ \text{mL} \\ \hline 305\ \text{mL} \end{array}$$

e.
$$\begin{array}{r} 85\ \text{mL} \\ +\ 48\ \text{mL} \\ \hline 133\ \text{mL} \end{array}$$

f.
$$\begin{array}{r} 49\ \text{L} \\ +\ 25\ \text{L} \\ \hline 74\ \text{L} \end{array}$$

2. Subtract the following capacities.

a.
$$\begin{array}{r} 235\ \text{mL} \\ -\ 103\ \text{mL} \\ \hline 132\ \text{mL} \end{array}$$

b.
$$\begin{array}{r} 38\ \text{mL} \\ -\ 14\ \text{mL} \\ \hline 24\ \text{mL} \end{array}$$

c.
$$\begin{array}{r} \overset{8}{\cancel{9}}\ \overset{1}{0}\ \text{L} \\ -\ 38\ \text{L} \\ \hline 52\ \text{L} \end{array}$$

d.
$$\begin{array}{r} \overset{7}{\cancel{8}}\ \overset{1}{5}\ \text{L} \\ -\ 49\ \text{L} \\ \hline 36\ \text{L} \end{array}$$

e.
$$\begin{array}{r} \overset{7}{\cancel{8}}\ \overset{1}{4}\ \text{L} \\ -\ 47\ \text{L} \\ \hline 37\ \text{L} \end{array}$$

f.
$$\begin{array}{r} \overset{7}{\cancel{8}}\ \overset{1}{2}\ \text{mL} \\ -\ 69\ \text{mL} \\ \hline 13\ \text{mL} \end{array}$$

Exercise 8.8

1. In a day, a milkman delivers 38 L of milk in one apartment and 19 L of milk in another apartment. How much quantity of milk does he deliver in all?

$$\begin{array}{r} 38\ \text{L} \\ +\ 19\ \text{L} \\ \hline 57\ \text{L} \end{array}$$

He delivers **57 L** of milk.

2. A medicine bottle contains 85 mL of syrup, out of which 17 mL of syrup is consumed. How much quantity is left in the bottle?

$$\begin{array}{r} 85\ \text{mL} \\ -\ 17\ \text{mL} \\ \hline 68\ \text{mL} \end{array}$$

68 mL of syrup is left in the bottle.

3. **The capacity of a glass is 275 mL and that of a bowl is 175 mL. Which container has more capacity and by how much?**

$$\begin{array}{r} 275\ \text{mL} \\ -\ 175\ \text{mL} \\ \hline 100\ \text{mL} \end{array}$$

Glass has more capacity by **100 mL**.

4. **There was 625 mL of juice in a jug. After I drank some from it, it has 120 mL left. How much did I drink?**

$$\begin{array}{r} 625\ \text{mL} \\ -\ 120\ \text{mL} \\ \hline 505\ \text{mL} \end{array}$$

I drank **505 mL** of juice.

5. **A big tanker contains 34 litres of hot water. 39 L of cold water is added to it. What is the total quantity of water now?**

$$\begin{array}{r} \overset{1}{} \\ 39\ \text{L} \\ +\ 34\ \text{L} \\ \hline 73\ \text{L} \end{array}$$

There are **73 L** of water.

Test Yourself-4

1. **Circle the correct unit that best estimates the length, height, capacity of weight.**
   a. (ii) cm b. (i) m c. (ii) kg d. (i) m e. (i) L f. (i) mL
2. The tooth brush is **11** pin long.
3. **Add/Subtract the following measurements.**

a.
$$\begin{array}{r} 12\ \text{km} \\ +\ 20\ \text{kg} \\ \hline 32\ \text{km} \end{array}$$

b.
$$\begin{array}{r} 450\ \text{mL} \\ +250\ \text{mL} \\ \hline 700\ \text{mL} \end{array}$$

c.
$$\begin{array}{r} 18\ \text{kg} \\ +36\ \text{kg} \\ \hline 54\ \text{kg} \end{array}$$

d.
$$\begin{array}{r} \overset{5}{\cancel{6}}\ \overset{1}{6}\ \text{kg} \\ -\ 19\ \text{kg} \\ \hline 47\ \text{kg} \end{array}$$

e.
$$\begin{array}{r} 350\ \text{mL} \\ +750\ \text{mL} \\ \hline 1100\ \text{mL} \end{array}$$

f.
$$\begin{array}{r} \overset{3}{\cancel{4}}\ \overset{1}{0}\ 0\ \text{m} \\ -\ 180\ \text{m} \\ \hline 220\ \text{m} \end{array}$$

Chapter-9 Money

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
What is money? forms of Indian currency (Rupee and paisa). The different denominations of Rupees and paisa.	Students will be able to identify denominations and perform calculations.	Show different notes and coins and ask the students to say the total amount. Explain 1 Re-100p	$\boxed{10} + \boxed{20} + \boxed{0} =$ ₹

Addition and subtraction of money.	Learners will be able to perform calculations of money.	Worksheet based on addition and subtraction of money.	Meena went to a mall and bought a dress for ₹ 500, a pair of shoes worth ₹ 300 and a T-shirt was ₹ 200. How much did she spend in all!

Challenge Corner

Exercise 9.1

How much money do the following notes and coin make? One has been done for you.

1. ₹27 2. ₹5 3. ₹50 4. ₹57 5. ₹100

ACTIVITY WORKSHEET

Luna is shopping for toys. She has notes and coins with her in her purse. She has notes of `20, `10 and coins of ₹5 and ₹2. Help Luna find out how many of each of these notes or coins she must give to the shopkeeper to buy each of these toys.

a. ₹20 + ₹10 b. ₹20 + ₹5

c. ₹20 + ₹5 + ₹7

MONEY CALCULATION

Fill in the blanks.

1. book, sharpner 2. bag, eraser 3. scissor, eraser, pencil
4. book, sharpner, eraser 5. bags

Exercise 9.2

1. Add the following money:

a.
	₹ 4 2
+	₹ 4 4
	₹ 8 6

b.
	6 0 p
+	4 9 p
	10 9 p

c.
	①
	₹ 3 4
+	₹ 4 6
	₹ 8 0

d.
	①
	5 6 p
+	2 8 p
	8 4 p

e.
	①
	4 9 p
+	3 6 p
	8 5 p

f.
	①
	₹ 4 5
+	₹ 2 6
	₹ 7 1

2. Subtract the following money.

a.
$$\begin{array}{r} 49\text{ p} \\ -\ 18\text{ p} \\ \hline 31\text{ p} \end{array}$$

b.
$$\begin{array}{r} ₹\ 65 \\ -\ ₹\ 13 \\ \hline ₹\ 52 \end{array}$$

c.
$$\begin{array}{r} {}^{(3)}\cancel{₹\ 4}^{(1)}\ 8 \\ -\ ₹\ 29 \\ \hline ₹\ 19 \end{array}$$

d.
$$\begin{array}{r} ₹\ 99 \\ -\ ₹\ 47 \\ \hline ₹\ 52 \end{array}$$

e.
$$\begin{array}{r} {}^{(3)}\cancel{₹\ 4}^{(1)}\ 0 \\ -\ ₹\ 36 \\ \hline ₹\ 4 \end{array}$$

f.
$$\begin{array}{r} 90\text{ p} \\ -\ 459 \\ \hline 45\text{ p} \end{array}$$

3. Solve the following questions with the help of the price list given below.

a. ₹60 b. ₹100 c. ₹30

Exercise 9.3

1. How much money should Sunita carry to buy a toy car and a teddy bear?

$$\begin{array}{r} 52 \\ +\ 87 \\ \hline 139 \end{array}$$

Sunita will need **₹139**.

2. Ritika had ₹ 173 with her. She spent ₹58 on buying some sweets. What amount is left with her?

$$\begin{array}{r} {}^{(6)}1\ {}^{(13)}7\ 3 \\ -\ 58 \\ \hline 115 \end{array}$$

She has ₹ 115 left with her.

3. Rita has ₹ 84 and Sam has ₹ 49. How much more money does Rita have?

$$\begin{array}{r} {}^{(7)}8\ {}^{(14)}4 \\ -\ 49 \\ \hline 35 \end{array}$$

Rita has **₹ 35** more than Sam.

4. Preeti spent ₹293 on lunch and ₹130 on breakfast. How much money did she spend in all?

$$\begin{array}{r} 293 \\ +\ 130 \\ \hline 423 \end{array}$$

Preet **₹ 423** in all.

ACTIVITY WORKSHEET

Four children went to a zoo with their parents. There are 5 kinds of shows available in the zoo. Each child wants to see different shows. Help them to calculate their expenses. One has been done for you.

Elephant Show =	₹ 25	Monkeyshow =	₹ 30
Spaceshow =	₹ 30	Dinosaur historyshow =	₹ 60
Total =	₹ 55	Total =	₹ 90

Tiger show =	₹ 5 0	Dinosaur history show =	₹ 6 0
Space show =	₹ 3 0	Elephant show =	₹ 2 5
Total =	₹ 8 0	Total =	₹ 8 5

Arrangethenameofthechildrenintheincreasingorderoftheirexpenses.

RITA | RITIKA | RAVISH | SUNEET

Chapter-10 Time and Calendar

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Concept of time. Morning and night. Clock and parts of clock Reading time to the hour.	Learners will be able to read time to the hour.	Show flash card of different times coins and ask the students to say time. Discuss about morning and night	What will be the time 3 hour after the time shown. 
Days of the week and months of the year.	Learners will be able to know the days and months.	Worksheet on questions based on days and months to be done.	If today is Sunday, what is the day after tomorrow?
Reading a calender	Learners will be able to read a calender.	Take a calender of current year (any month) and ask questions like when is first Sunday?	How many Saturdays are there is the month of April 22?

Exercise 10.1

1. Write the time.

a. 2 o'clock b. 4 o'clock c. 9 o'clock

d. 1 o'clock e. 5 o'clock f. 12 o'clock

2. Draw the hands of clock to show time.

a. 

b. 

c. 

d. 

e. 

f. 

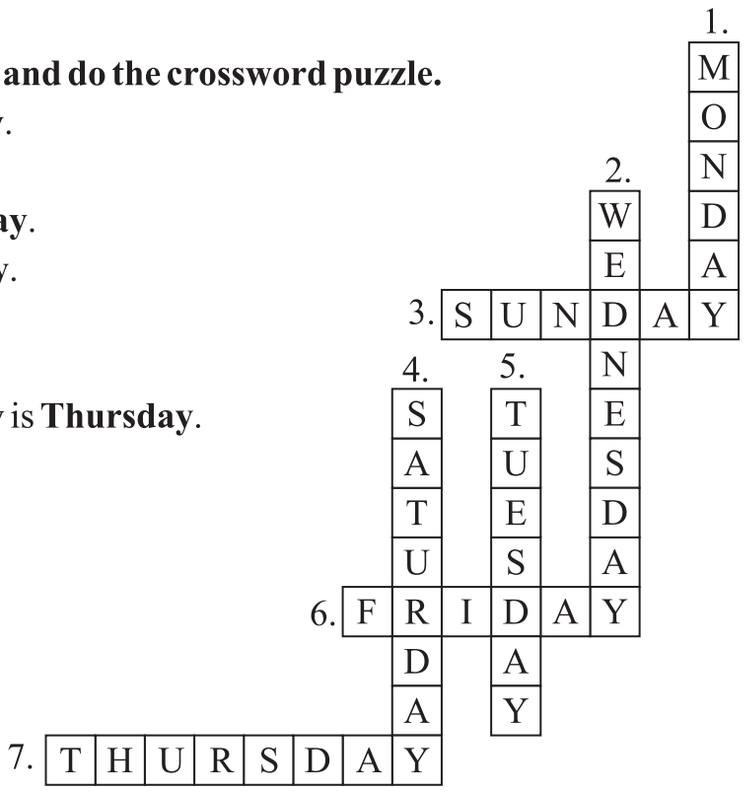
Do it yourself

a. Saturday b. Tuesday c. Saturday d. Monday e. Seven
f. Saturday g. Tuesday

ACTIVITY WORKSHEET

Fill in the blanks with the days of the week and do the crossword puzzle.

1. Two days before Wednesday is **Monday**.
2. The day after Tuesday is **Wednesday**.
3. The second day of the weekend is **Sunday**.
4. The first day of the weekend is **Saturday**.
5. Two days after Sunday is **Tuesday**.
6. The day that starts with 'F' is **Friday**.
7. The day between Wednesday and Friday is **Thursday**.



Exercise 10.2

1. Write the time.

a. July b. November c. January d. August e. September
f. May g. August h. February

2. Answer the following questions using the calender below.

a. August 2022 b. 31 days c. Sunday d. Monday
e. 5 f. 28th g. 17th

Test Yourself-10

1. Read the time.

a. 2 o'clock b. 5 o'clock c. 9 o'clock

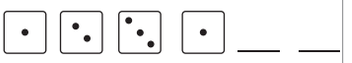
2. Fill in the blanks.

a. Saturday, Sunday b. July c. December d. Saturday e. 30

3. Find the amount.

a. ₹ 15 b. ₹ 60 c. ₹ 40 d. ₹ 25

Chapter-11 Patterns

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Patterns in surrounding	Learners will be able to identify pattern in the surrounding.	Ask the children to look and observe at the grill of the classroom windows. Ask them to draw the pattern on paper.	
Shapes and number patterns	Learners will be able to identify the given pattern and find out next is the pattern.	Worksheets based on shapes and number pattens can be done. Find the next in the pattern 1 2 2 1 1 2 1 ☐	Complete the dice patten 

Exercise 11.1

1. Fill in the blank spaces to complete each pattern. One has been done for you.

b. 9 8 7 6 5 4 3 2

c. 75 77 79 81 83 85 87 89

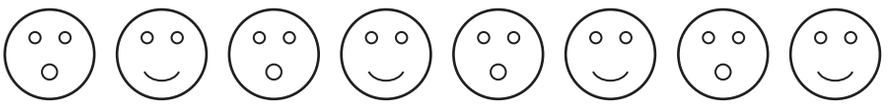
d. 200 300 400 500 600 700 800 900

e. 110 120 130 140 150 160 170 180

f. 50 60 70 80 90 100 110 120

2. Study the pattern and then fill in the missing patterns.

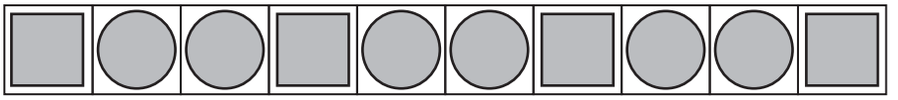
a. Finish off the next 2 faces in the pattern.



b. Write the next 3 numbers in this pattern.

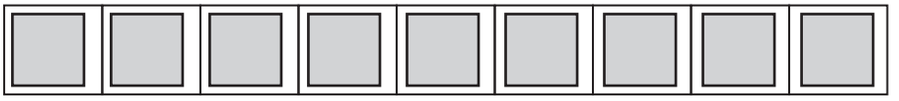
1	2	3	4	1	2	3	4	1	2	3	4	**1**	**2**	**3**

c. Shade the last 2 shapes to finish the pattern.



d. Complete the last 2 dice patterns.

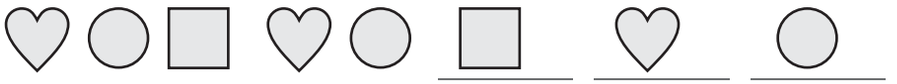
e. Shade the last 3 patterns.



f. Write the last 2 letters.

X	Y	Z	X	Y	Z	X	**Y**	**Z**

g.



Chapter-12 Data Handling

Topics	Learning Outcomes	Teaching Learning Activity	Questions on Hots
Concept of data and analysis of data.	Learners will be able to tabulate and analyse data.	Take the children to the school garden and find out the number of different colour of flowers and tabulate it.	How many Students brought vegetables in lunch box? Collect data and record it.
Pictograph	Learners will be able to record and tabulate data in the form of pictograph.	Make the children prepare a pictograph of the data on flowers collected above.	Based on the pictograph of flowers in the garden Answer the following questions. 1. What is the most common flower in the garden? 2. How many yellow flowers are there?

Study the table above and answer the following questions.

How many oranges are there? **5**

How many cherries are there? **7**

How many bunches of grapes are there? **3**

PICTOGRAPH

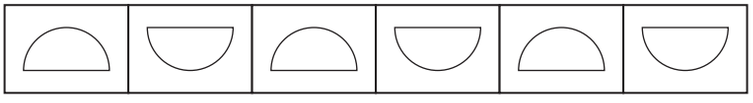
2. How many vanilla ice-creams were sold? **5**
3. How many kesar-pista ice-creams were sold? **4**
4. Which flavoured ice-cream was least sold? **Chocolate**
5. Which flavoured ice-cream was sold more? Chocolate or Vanilla? **Vanilla**
6. What is the total number of ice-creams sold? **20**

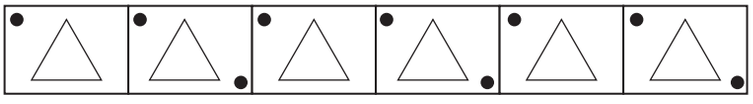
Test Yourself-6

1. Study the pictograph given below and answer the following questions.

1. 3 2. 1st 3. 7

2. Complete the pattern.

(a) 

(b) 

(c)

22	33	44	55	66	77

WORKSHEET

Worksheet-1

1.

1	2	3	4	5	6	7	8	9	10

2. 20 (Explain subtraction of zero)

3. 30 (Explain any number multiplied by 1 is same) **4.**

5. 133 **6.** 255 **7.** < **8.** 10, 12, 14 9. 8 10. 3 o'clock

Worksheet-2

1. 285 **2.** 100 **3.** 4 **4.** 7 **5.** 60 **6.** No **7.** 5

8. 40 **9.** 20 **10.** =

Worksheet-3

1. Cube **2.** One hundred and eighty nine **3.** 24 **4.** 15 (Explain 3 time 5)

5. 139 **6.** 80 **7.** 451 **8.** October **9.** 1 **10.** 8 tens

Worksheet-4

1. 80 **2.** 43 **3.** 459 **4.** 750 = 7 hundred + **5** tens + **0** ones

5. 14 days **6.** 42 **7.** 40 **8.** ₹20 **9.** 18 **10.** 10

Worksheet-5

1. 239 **2.** 27 **3.** 31 **4.** 8 **5.** 215 **6.** 846 **7.** 8 **8.** 231

9. 180 **10.** 160

Worksheet-6

1. 99 **2.** False **3.** 25 4. 900 **5.** 86 **6.** 61 **7.** 60

8. 461 **9.** 199 **10.** 50

Worksheet-7

1. 5 **2.** Three hundred and fifty seven **3.** 362 **4.** 964 **5.** 28

6. 59 (Explain 50 + 9) **7.**  **8.** 366 **9.** 1000 **10.**

$$\begin{array}{r} 72\ \text{mL} \\ +\ 93\ \text{mL} \\ \hline 165\ \text{mL} \end{array}$$

Worksheet-8

1. 171 **2.** 0 **3.** 16 **4.** 32 (4 × 8) **5.** No **6.** 74

7. 199 **8.** < **9.** 506 **10.**

$$\begin{array}{r} 150 \\ +\ 50 \\ \hline ₹200 \end{array}$$

Worksheet-9

1. 141 **2.** 10 **3.** 550 **4.** 4 **5.** 5 hundred + 0 tens + 0 ones

6. 387 **7.** 3 **8.** 0 **9.** 495 (500 – 5) **10.** 100

Worksheet-10

1. 12 **2.** 1 **3.** 4 (8 ÷ 2) **4.** 17 **5.** 625 **6.** 4 **7.** 0

8. 0 **9.** 186 **10.** 85, (62), (14), (50), 37