

# TEACHER'S MANUAL

NCERT Practice

# Work BOOK

Designed  
by Expert  
Mathematicians

Class  
**3**

Mathematics

# Maths Mela

Alok Airan





# What's in a Name

## Worksheet 1.1

1. Write the number names for each of the following:

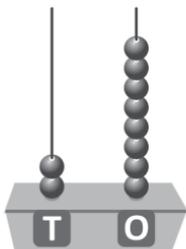
- a.  $67 =$  Sixty-seven                      b.  $28 =$  Twenty-eight  
c.  $56 =$  Fifty-six                              d.  $36 =$  Thirty-six

2. Write the numerals for each of the following:

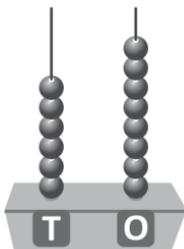
- a. Sixty-nine                                            b. Fifty-six                        
c. Eighty-four                                            d. Ninety-seven

3. Represent the given numbers on the abacus and write the number name in the box:

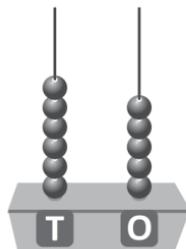
a. 28



b. 68

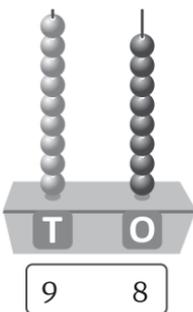


c. 65

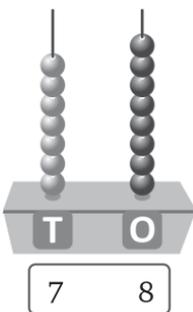


4. Count the beads and write the number in the box:

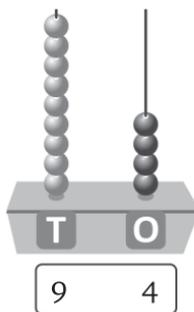
a.



b.



c.



5. Complete the following number grids by filling the missing numbers:

51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80

81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

6. Counting by fives, write the numbers starting from:  
a. 30          b. 50
7. Counting by tens, write the numbers starting from:  
a. 20          b. 35
8. Counting by twenties, write the numbers starting from:  
a. 50          b. 85
9. Counting by fours, write the numbers starting from:  
a. 18          b. 36
10. Counting by eights, write the numbers starting from:  
a. 24          b. 35



## 2 Toy Joy

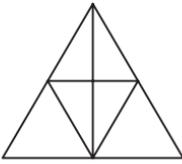
### Worksheet 2.1

1. Look the shape and fill in the blanks:

- a.  It is in the shape of **Square**.
- b.  It is in the shape of **cuboid**.
- c.  It is in the shape of **cuboid**.
- d.  It is in the shape of **sphere**.

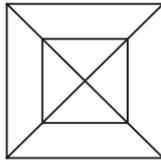
2. Write the number of triangles in each of the following figures:

a.



10

b.



8

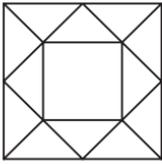
c.



8

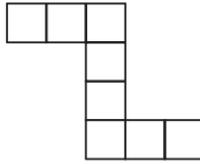
3. Write the number of squares in each of the following figures:

a.



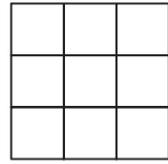
3

b.



8

c.



9

### Worksheet 2.2

Some practical examples of solid objects that we use in our daily life, identify their shapes:



Sphere



Sphere



Cuboid



Cone



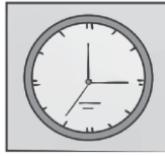
Cuboid



Cylinder



Square



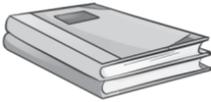
Circle



Cylinder

### Worksheet 2.3

1. Write the curved surface and plane surface for each of the following figures:



Cuboid



Cylinder



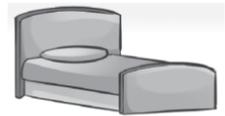
Cone



Sphere



Cylinder



Cuboid

2. Write the name of three objects from your surroundings that have only plane faces:
- a. Almirah      b. Cube      c. Bed
3. Write the name of three objects from your surrounding that have only curved faces:
- a. Football      b. Globe      c. Basketball
4. Write the name of three objects from your surroundings that have both curved and plane faces:
- a. Birthday cap      b. Gas Cylinder      c. Ice-cream cone
5. Fill in the blanks:
- a. A cuboid has **6** faces and **8** vertices.
- b. A cylinder has **3** surfaces and **0** edge.

- c. A cone has **2** surfaces and **1** vertex.
- d. A sphere has **1** surface.

### Mental Maths

1. Opposite faces of **cuboid** are identical.
2. All faces of **square** are identical.
3. Opposite faces of a cylinder are **equal**.
4. A **cone** has 1 curved and a plane surface.
5. The shape of the globe like a **sphere**.

### Multiple Choice Questions

Tick (✓) the correct option:

1. (b)
2. (a)
3. (c)
4. (c)
5. (c)



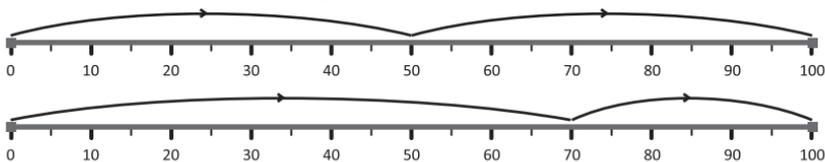
# Double Century

## Worksheet 3.1

1. Fill in the blanks:

Making 100	Number sentence
	80 and 20 makes 100
	70 and 30 makes 100
	50 and 50 makes 100

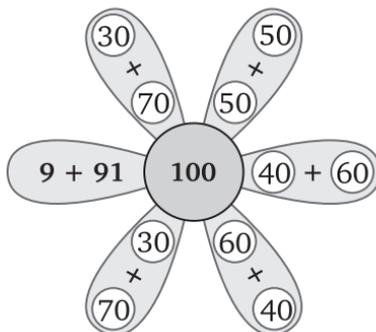
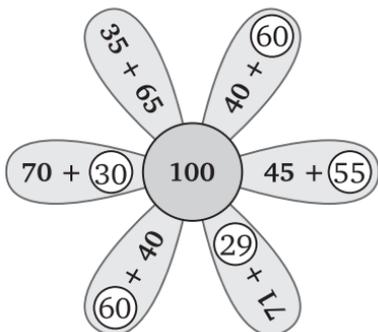
Make 100 by different jumps on this number line.



2. Use matchstick bundles and a ginladi to make 100 in different way. Fill in the table below.

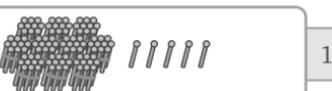
70 and 30 makes 100	55 and 45 makes 100.
65 and 35 makes 100.	35 and 65 makes 100.
75 and 25 makes 100.	50 and 50 makes 100.

3. Write numbers in the blank spaces inside the flower petals so that the numbers in each petal add up to 100.

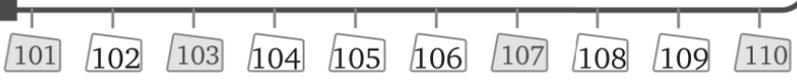


### Worksheet 3.2

Let's observe the table and learn to write numbers beyond 100. Fill in the blank spaces:

	100 and 1 makes One Hundred one	101
	100 and 2 makes One Hundred two	102
	100 and 3 makes One Hundred three	103
	100 and 4 makes One Hundred four	104
	100 and 5 makes One Hundred five	105
	100 and 6 makes One Hundred six	106
	100 and 7 makes One Hundred seven	107
	100 and 8 makes One Hundred eight	108
	100 and 9 makes One Hundred nine	109
	100 and 10 makes One Hundred ten	110

Fill the blank spaces on the number line given at the edge of the page.



## Worksheet 3.3

1. Let's continue making numbers above 100 using matchstick bundles and loose sticks.

In the table given below, identify the bundles and loose sticks and write the corresponding numbers.

Bundles and Sticks	Matchstick bundles			Number
	100	10s	1s	
	1	3	4	134
	1	3	5	135
	1	2	7	127
	1	2	2	122
	1	4	7	147
	1	3	9	139
	1	1	4	114
	1	5	5	155

2. Match the numbers with the correct bundles and loose sticks.

103 → 1 bundle of 100 sticks and 3 loose sticks

118 → 1 bundle of 100 sticks and 18 loose sticks

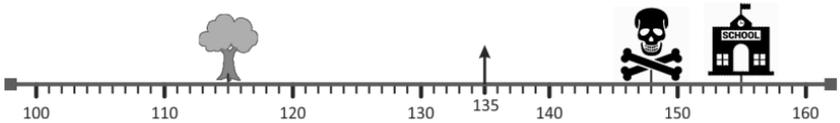
120 → 1 bundle of 100 sticks and 20 loose sticks

100 → 1 bundle of 100 sticks

150 → 1 bundle of 100 sticks and 50 loose sticks

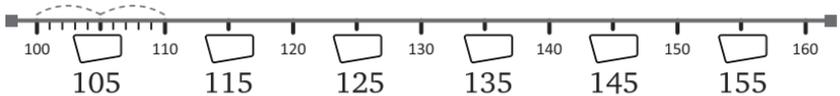
3. Show the following numbers on the number line below.

- Place an arrow on 135.
- Make a tree on 115.
- Make a school symbol on 155.
- Put a danger symbol 148.

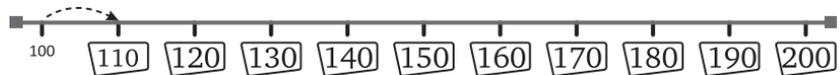


### Worksheet 3.4

1. Draw jumps of 5 on the number line and write the numbers on the number line in the given space.



2. Continue jumps of 10 and write the missing numbers on the given number line.



3. Show at least two different ways of making the following numbers. (Do Yourself)

## 4. Fill in the empty boxes appropriately.

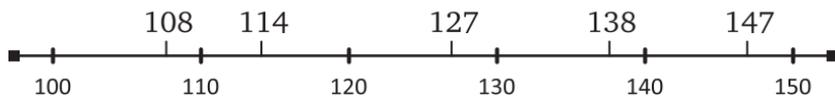
Number	Pictorial Form	Matchstick Bundles			Number Sentence
		100	10s	1s	
116		1	1	6	100 and 16 more
142	Do yourself	1	4	2	100 and 42 more
149		1	4	9	100 and 49 more
182	Do yourself	1	8	2	100 and 82 more
176	Do yourself	1	7	6	100 and 76 more
175	Do yourself	1	7	5	25 more than 150
190	Do yourself	1	9	0	100 and 90 more

## 5. Fill in the table:

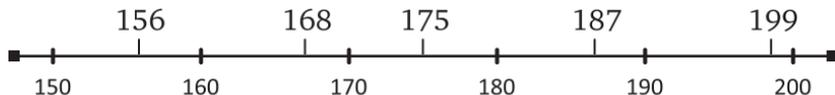
Predecessor	Number	Successor
158	159	160
137	138	139
196	197	198
164	165	166
148	149	150

## 6. Mark the following numbers on the number line.

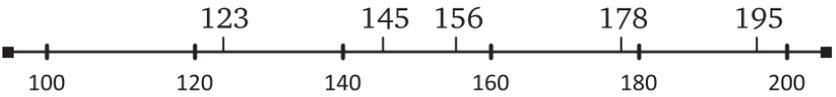
a. 108, 114, 127, 138, 147



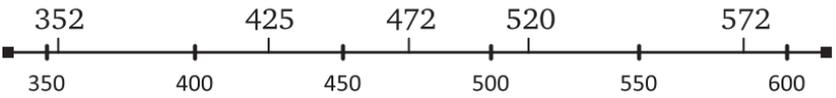
b. 156, 168, 175, 187, 199



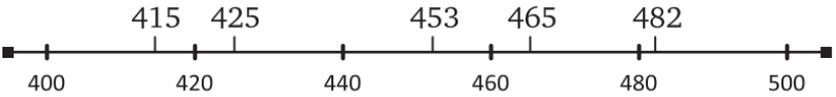
c. 123, 145, 156, 178, 195



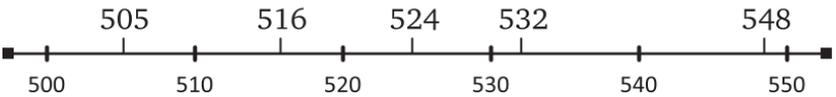
d. 352, 425, 472, 520, 572



e. 415, 425, 453, 465, 482



f. 505, 516, 524, 532, 548



### Worksheet 3.5

Fill the missing numbers on the board.

END	99	98	97	96	95	94	93	92	91
100									
81	82	83	84	85		86	87	88	89
80	79	78	77		75	74	73	72	71
				76					
61	62		64	65		67	68	69	70
		63			66				
60	59	58	57	56	55				
						54			
41	42	43	44	45	46	47	48	49	50
40	39	38	37		35		33	32	31
				36		34			
21	22	23	24	25	26	27	28		30
	20	19	18		16	15	14		12
				17					11
1	2	3		5	6	7	8		10
			4					9	

**Answer the following on the basis of the Snakes and Ladders board.**

1. Which number will you reach if you take the ladder from 13? **50**
2. If you are on the snake at number 25, which number will you reach? **2**
3. You are standing on 96. Which number on the die will take you to the snake's mouth? **3**
4. Show the number written on the tail of the longest snake using bundles and loose sticks. **Yourself**





# Vacation with My Nani Maa

## Worksheet 4.1

$$18 \text{ coins} + 15 \text{ coins} = 33 \text{ coins} \quad \text{or} \quad 18 + 15 = 33$$

$$33 \text{ coins} - 22 \text{ coins} = 11 \text{ coins}$$

or  $22 \text{ coins} + 11 \text{ coins} = 33 \text{ coins}$

$$33 \text{ coins} + 25 \text{ coins} = 58 \text{ coins} \quad \text{or} \quad 25 + 33 = 58$$

## Worksheet 4.2

- Solve the following: (Do yourself)
- Do Yourself
- Do Yourself
- Do Yourself
- Fill in the tables by jumping as instructed.

Jump 5

24	46	77
29	51	72
34	56	67
39	61	62

Jump 6

38	49	73
44	55	67
50	61	61
56	67	55

Jump 9

19	12	93
28	21	84
37	30	75
46	39	66

## Fun Time

3	5	8	16
7	9	6	22
1	2	4	7
11	16	18	

1	3	8	12
2	5	9	16
6	7	4	17
9	15	21	

1	3	6	10
7	4	8	19
2	5	9	16
10	12	23	

### Worksheet 4.3

Solve the above problem on the number line. (Do Yourself)

1. Books sold on Monday = 42

Books sold on Tuesday = 53

Total books sold =  $42 + 53$

= **95**

Difference =  $53 - 42 = 11$

	T	O
	4	2
+	5	3
	9	5

2. Team A made runs before lunch = 48

Team A made runs after lunch = 72

Total runs =  $48 + 72$

= **120**

	T	O
	1	
	4	8
+	7	2
	1	2
	2	0

3. Sneha sold samosa on first day = 43

Next day she sold more samosa =  $43 + 9 = 52$

Total samosas on both day =  $43 + 52$

= **95**

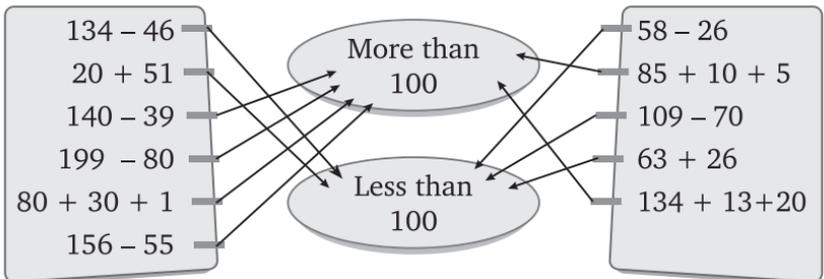
4. Meenal brings plants = 48

Left plants = 32

Dried up plants =  $48 - 32 = 16$

### Worksheet 4.4

1. Estimate the answer and say if it will be more or less than 100. Match with the correct one.





# Fun with Shapes

## Worksheet 5.1

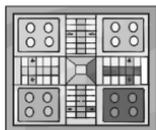
1. Identify the shapes of the following things:

a.



Cylinder

b.



Square

c.



Cone

d.



Rectangle

e.



Rectangle

f.



Sphere

g.



Square

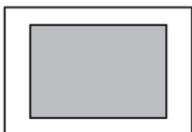
h.



Cuboid

2. Write the number of sides and vertices and the following figures:

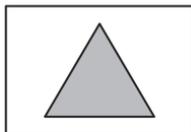
a.



Sides

Vertices

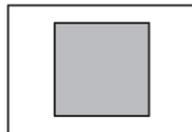
b.



Sides

Vertices

c.



Sides

Vertices

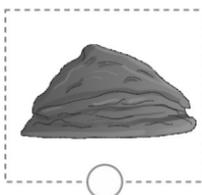
## Worksheet 5.2

1. Tick (✓) the objects which can be used to draw straight lines:

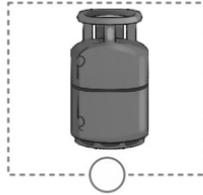
a.



b.



c.



2. Tick (✓) the objects which can be used to draw curved lines:

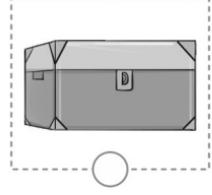
a.



b.



c.



3. How many horizontal lines, vertical lines, slanting lines and curved lines are used to draw the following figures: (Do yourself)

### Worksheet 5.3

1. Construct the rectangles using the sides given below: (Do yourself)
2. Draw 3 bigger rectangles around this small rectangle. (Do yourself)
3. 8
4. Look at the different rectangles given below and answer the following questions.
  - a. How many sides are there in a rectangle? 4
  - b. How many corners are there in a rectangle? 4
  - c. Are there any sides in a rectangle that are equal in length to each other? **Opposite side**
  - d. What do you notice in a rectangle? Describe it in your own words. **Do Yourself**

### Worksheet 5.4 (Do Yourself)

### Worksheet 5.5 (Do Yourself)

### Worksheet 5.6

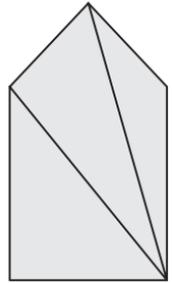
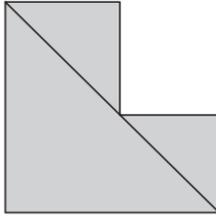
1. Each of these shapes can be the odd one out.



2. To complete the rectangle, tick (✓) the appropriate shapes from the left side to fill the gaps in the shape on the right side.



3. Draw two lines to split the shape into three triangles.
4. Draw one line to split the shape into 3 triangles.



5. Make the following shapes with different sizes and orientations (angular positions) in your notebook. (Do Yourself)

### Worksheet 5.7

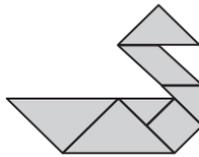
1. Identify the following shapes:

a.



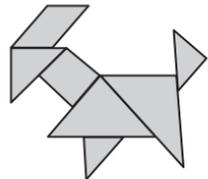
Camel

b.



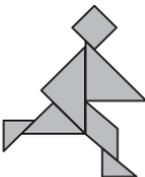
Duck

c.



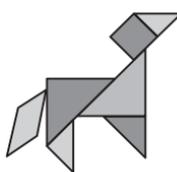
Horse

d.



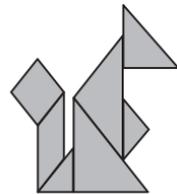
Man

e.



Dog

f.



Snake

2. Using pieces of tangram. Draw the following shapes: (Do yourself)

### Mental Maths

1. Scale is used to draw **straight** lines.
2. Coin is used to draw **curved** lines.
3. Cone can be used to draw **slant** and **curved** lines.
4. Cuboid is used to draw **Straight** lines.

### Multiple Choice Questions

Tick (✓) the correct option:

1. (d)
2. (b)
3. (c)
4. (d)



# House of Hundreds-I

## Worksheet 6.1

1. Saksham is jumping on a tiled path inside the mela. Fill in the empty tiles with numbers.



2. Fill in the blanks with the correct numbers.



3. 125 126 127 128 129 130 131 132 133 134

4. 481 482 483 484 485 486 487 488 489 490

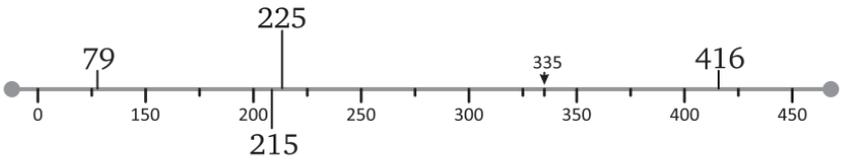
5. Ants have found food on the ground. Guess how many ants there are. Count and check. 110

## Worksheet 6.2

1. Fill in the blanks appropriately.

Matchsticks	Number	Number Sentence
	335	300 and 35 more (300 + 35) 15 less than 350 (350 - 15)
	215	200 and 15 more (200 + 15) 35 less than 250 (250 - 35)
	226	200 and 26 more (200 + 26) 24 less than 250
Do yourself	416	400 and 16 more
Do yourself	79	70 and 9 more
Do yourself	209	200 and 9 more (200 + 9)

2. Place the number given above on the number line.



335 lies between 300 and 350.

3. Look at the pictures and write the corresponding numbers.

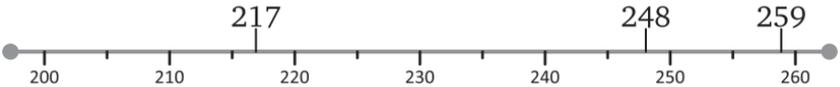
212		211
301		310
234		223

4. Make the number slider as shown in the picture. Increase or decreases the number as given below:

- a. 385 — increase the number by 3 388
- b. 247 — increase the number by 15 262
- c. 467 — decrease the number by 5 462
- d. 389 — decrease the number by 20 369
- e. 590 — increase the number by 30 620

### Worksheet 6.3

1. Locate 217, 248, 259 on the number line below.

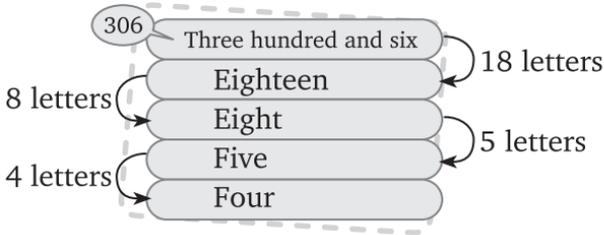
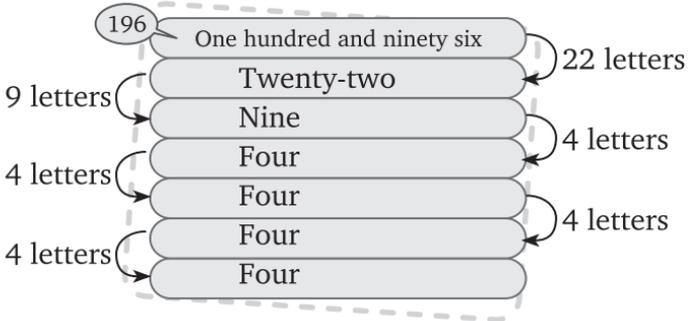


2. Locate 429, 432, 427, 475 and 487 on the number line below.



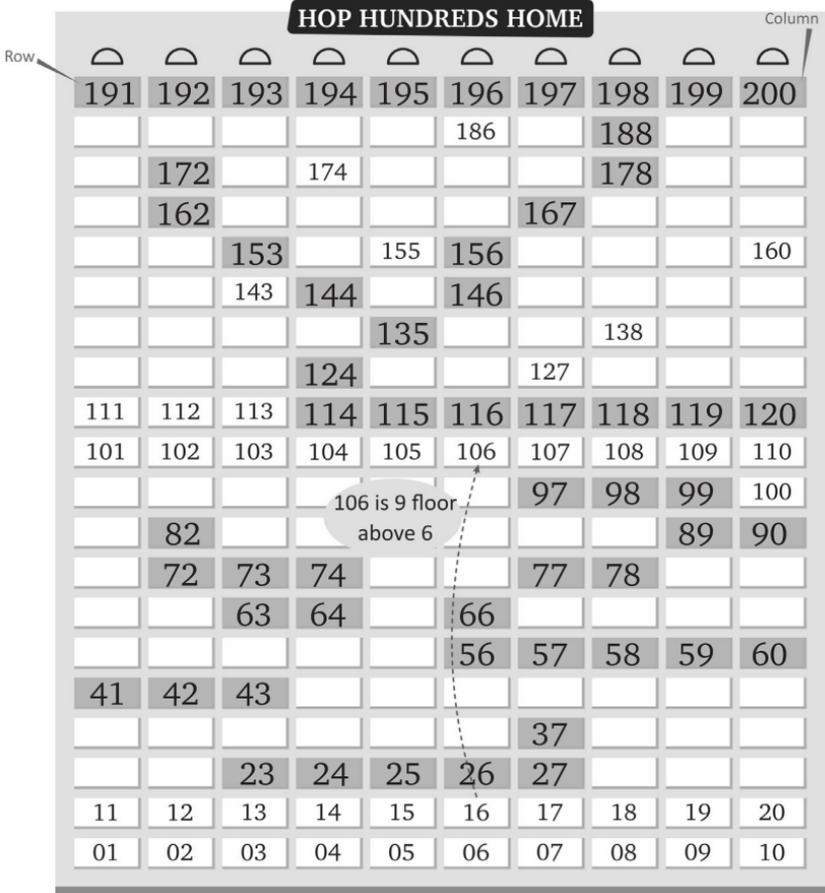
3. Tell how far 487 from 500: 13

Fun Time



### Worksheet 6.4

1. Meetali and Saksham saw a big apartment.



2. Write the floor and column number for each of the following houses.

House Number	Floor	Column
23	2nd	3
27	2nd	7
206		
259		
292		
231		

145		
328		
380		
499		

### Worksheet 6.5

1. Put '<', '>' or '=' sign in the boxes:

- a.  $4286 \boxed{>} 976$                       b.  $8137 \boxed{>} 5496$   
 c.  $6737 \boxed{=} 6737$                       d.  $6028 \boxed{<} 7096$

2. Encircle the smallest number:

- a. 9143, 6708, 5976,  $\boxed{3894}$     b. 6897, 4706,  $\boxed{3784}$ , 9763  
 c. 7238,  $\boxed{3764}$ , 8644, 5281    d. 8143, 7064, 5796,  $\boxed{374}$

3. Encircle the greatest number:

- a. 4127, 6738,  $\boxed{8048}$ , 2376    b. 3197, 6725,  $\boxed{9172}$ , 8374  
 c. 8137,  $\boxed{9162}$ , 8145, 5832    d.  $\boxed{9063}$ , 7058, 8237, 537

4. Arrange each of the following in ascending order:

- a. 4728, 5037, 5728, 9167    b. 2036, 5773, 7228, 8148  
 c. 2056, 5089, 7032, 8143    d. 6725, 7656, 8146, 8189

5. Arrange each of the following in descending order:

- a. 8967, 8796, 8257, 5178    b. 6758, 5794, 4567, 2809  
 c. 8597, 7137, 6385, 2096    d. 9149, 7149, 7143, 6372

### Puzzle Game

I am a 4-digit number

- My thousands place digit is the successor of 4.
- Place value of hundreds place digits is 600.
- Face value of tens place digit is 7.
- Ones place digit is the predecessor of 9.

What am I? **5678**

### Worksheet 6.6

1. Form the four different numbers with the given digits:

- a. 7, 4, 5, 1  $\rightarrow$  1454, 1547, 1745, 7451  
 b. 8, 1, 4, 0  $\rightarrow$  1048, 1980, 1804, 8410

c. 7, 6, 2, 8 → 2678, 6278, 2687, 8762

d. 3, 7, 2, 8 → 8732, 2378, 2738, 2873

2. Form the greatest and smallest 4-digit number with the given digits:

	Greatest	Smallest
a. 6, 0, 9, 7	9760	6079
b. 3, 7, 8, 5	8753	3578
c. 6, 1, 3, 9	9637	1369
d. 6, 7, 1, 4	1467	7641

### Mental Maths

1. The smallest 5-digit number is **10000**.
2. The successor of the greatest 6-digit number is **1000000**.
3. The predecessor of 9350 is **9349**.
4. The place value of 3 in 3657 is **3000**.

### Multiple Choice Questions

Tick (✓) the correct option:

1. (b)
2. (c)
3. (d)
4. (b)
5. (c)

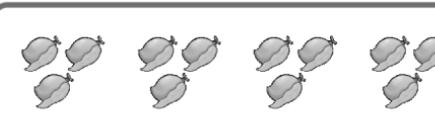


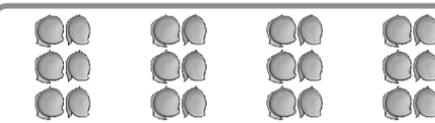
# Raksha Bandhan

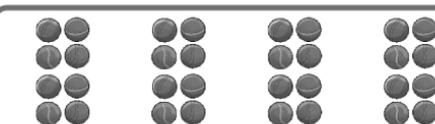
## Worksheet 7.1

1. Fill in the boxes:

a.  = 20 or  $5 \times 4 = 20$

b.  = 12 or  $3 \times 4 = 12$

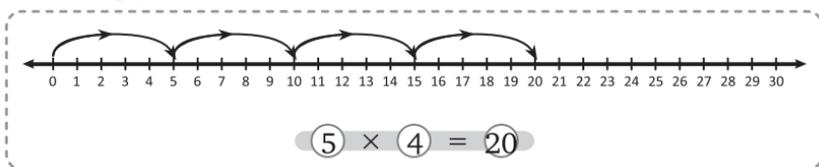
c.  = 24 or  $6 \times 4 = 24$

d.  = 32 or  $8 \times 4 = 32$

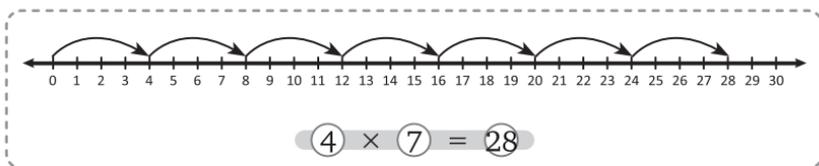
## Worksheet 7.2

1. Using the number line, multiply the following:

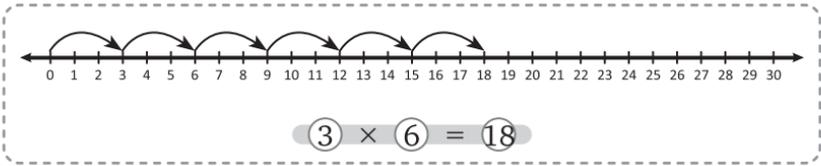
a. Multiply 5 by 4



b. Multiply 4 by 7



c. Multiply 3 by 6



### Nitin is Skip Jumping By 5.

Number of Jumps

Number reached

- 1 jump  $\rightarrow$  5
- 2 jumps  $\rightarrow$   $5 + 5 = 10 = 2 \times 5$
- 3 jumps  $\rightarrow$   $5 + 5 + 5 = 15 = 3 \times 5$
- 4 jumps  $\rightarrow$   $5 + 5 + 5 + 5 = 20 = 4 \times 5$
- 5 jumps  $\rightarrow$   $5 + 5 + 5 + 5 + 5 = 25 = 5 \times 5$
- 6 jumps  $\rightarrow$   $5 + 5 + 5 + 5 + 5 + 5 = 30 = 6 \times 5$
- 7 jumps  $\rightarrow$   $5 + 5 + 5 + 5 + 5 + 5 + 5 = 35 = 7 \times 5$
- 8 jumps  $\rightarrow$   $5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 = 40 = 8 \times 5$
- 9 jumps  $\rightarrow$   $5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 = 45 = 9 \times 5$
- 10 jumps  $\rightarrow$   $5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 + 5 = 50 = 10 \times 5$

### Worksheet 7.3

- Is there a pattern in these numbers: 5, 10, 15, **20** ?
- How many steps forward is Nitin jumping each time? 4
- Naveen is doing skip jumping of **9** steps.  
After 27 he will jump on 3, 6

### Worksheet 7.4

#### 1. Using multiplication tables, find the product of the following:

- |                      |                       |                       |
|----------------------|-----------------------|-----------------------|
| a. $8 \times 7 = 56$ | b. $7 \times 5 = 35$  | c. $8 \times 9 = 72$  |
| d. $7 \times 9 = 63$ | e. $5 \times 7 = 35$  | f. $8 \times 6 = 48$  |
| g. $9 \times 7 = 63$ | h. $5 \times 9 = 45$  | i. $9 \times 8 = 72$  |
| j. $8 \times 5 = 40$ | k. $9 \times 10 = 90$ | l. $4 \times 4 = 16$  |
| m. $4 \times 8 = 32$ | n. $6 \times 3 = 18$  | o. $10 \times 2 = 20$ |
| p. $3 \times 6 = 18$ | q. $8 \times 3 = 24$  | r. $10 \times 3 = 30$ |

## Worksheet 7.5

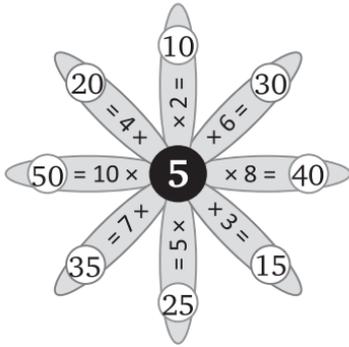
- A housefly has 6 legs.  
5 housefly will have  $5 \times 6 = 30$  legs.  
10 housefly will have  $10 \times 6 = 60$  legs.  
15 housefly will have  $15 \times 6 = 90$  legs.
- Legs of 1 housefly = 6  
So, legs of 23 houseflies =  $23 \times 6$   
 $= 138$
- Lets of 1 housefly = 6  
So, in 30 legs, houseflies =  $30 \div 6$   
 $= 5$
- Number of wheels in a car = 4
  - So, number of wheels in 18 cars =  $18 \times 4$   
 $= 72$
  - Number of wheels in 34 cars =  $34 \times 4$   
 $= 136$
- Total number of wheels = 36  
So, number of cars =  $\frac{36}{4} = 9$
- Number of legs of 1 ant = 6  
So, number of legs of 55 ants =  $55 \times 6$   
 $= 330$
- Number of legs of 1 cow = 4  
So, number of cows =  $\frac{48}{4} = 12$
- Number of horns of 1 cow = 2  
So, number of horns of cows =  $\frac{24}{2} = 12$   
Hence, number of legs =  $12 \times 4$   
 $= 48$

**Worksheet 7.6** (Do Yourself)

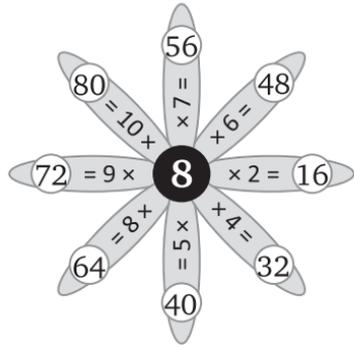
Mental Maths

Fill the followers:

1.



2.


**Multiple Choice Questions**
**Tick (✓) the correct option:**

1. (a)

2. (a)

3. (b)

4. (c)

5. (c)

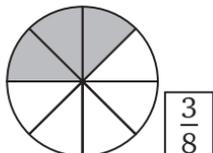


# Fair Share

## Worksheet 8.1

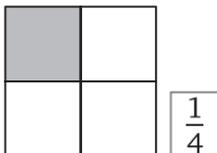
1. Write the fraction for each shaded part:

a.



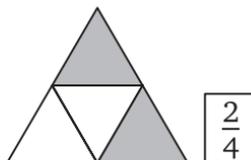
$\frac{3}{8}$

b.



$\frac{1}{4}$

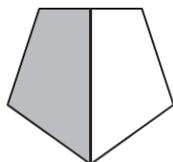
c.



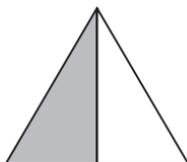
$\frac{2}{4}$

2. Colour one-half ( $\frac{1}{2}$ ) of each of the following shape:

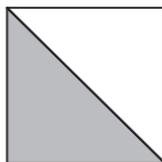
a.



b.

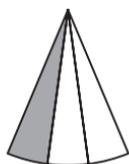


c.

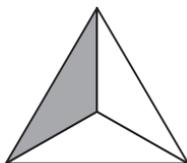


3. Colour one third ( $\frac{1}{3}$ ) of each of the following shape:

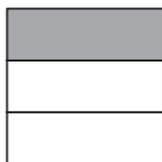
a.



b.



c.



## Worksheet 8.2

1. Colour the pictures and find the number: (Do yourself)

2. a.  $\frac{1}{3}$  of 24 =  $\frac{1}{3} \times 24 = 8$

b.  $\frac{1}{4}$  of 16 =  $\frac{1}{4} \times 16 = 4$

c.  $\frac{1}{2}$  of 12 =  $\frac{1}{2} \times 12 = 6$

d.  $\frac{1}{4}$  of 28 =  $\frac{1}{4} \times 28 = 7$

e.  $\frac{1}{5}$  of 35 =  $\frac{1}{5} \times 35 = 7$

f.  $\frac{1}{6}$  of 30 =  $\frac{1}{6} \times 30 = 5$

g.  $\frac{1}{3}$  of 24 =  $\frac{1}{3} \times 24 = 8$

h.  $\frac{1}{5}$  of 55 =  $\frac{1}{5} \times 55 = 11$

**Worksheet 8.3**

1. Write four equivalent fractions to each of the following fractions:

a. Four equivalent fractions to  $\frac{2}{3}$  are

$$\frac{2 \times 2}{3 \times 2}, \frac{2 \times 3}{3 \times 3}, \frac{2 \times 4}{3 \times 4}, \frac{2 \times 5}{3 \times 5}$$

$$\text{i.e. } \frac{2}{3} = \frac{4}{6}, \frac{6}{9}, \frac{8}{12}, \frac{10}{15}$$

b. Four equivalent fractions to  $\frac{4}{7}$  are

$$\frac{4 \times 2}{7 \times 2}, \frac{4 \times 3}{7 \times 3}, \frac{4 \times 4}{7 \times 4}, \frac{4 \times 5}{7 \times 5}$$

$$\text{i.e. } \frac{8}{14}, \frac{12}{21}, \frac{16}{28}, \frac{20}{35}$$

c. Four equivalent fractions to  $\frac{5}{8}$  are

$$\frac{5 \times 2}{8 \times 2}, \frac{5 \times 3}{8 \times 3}, \frac{5 \times 4}{8 \times 4}, \frac{5 \times 5}{8 \times 5}$$

$$\text{i.e. } \frac{10}{16}, \frac{15}{24}, \frac{20}{32}, \frac{25}{40}$$

d. Four equivalent fractions to  $\frac{5}{13}$  are

$$\frac{5 \times 2}{13 \times 2}, \frac{5 \times 3}{13 \times 3}, \frac{5 \times 4}{13 \times 4}, \frac{5 \times 5}{13 \times 5}$$

$$\text{i.e. } \frac{10}{26}, \frac{15}{39}, \frac{20}{52}, \frac{25}{65}$$

2. Fill in the boxes:

a.  $\frac{5}{8} = \frac{25}{x}$

So,  $5 \times x = 25 \times 8$

$$\Rightarrow x = \frac{25 \times 8}{5}$$

$$\Rightarrow x = 40$$

b.  $\frac{7}{8} = \frac{28}{x}$

So,  $7 \times x = 28 \times 8$

$$\Rightarrow x = \frac{28 \times 8}{7}$$

$$\Rightarrow x = 32$$

c.  $\frac{5}{17} = \frac{35}{x}$

So,  $5 \times x = 35 \times 17$

$$\Rightarrow x = \frac{35 \times 17}{5}$$

$$\Rightarrow x = 119$$

d.  $\frac{9}{11} = \frac{x}{55}$

So,  $11 \times x = 9 \times 55$

$$\Rightarrow x = \frac{9 \times 55}{11}$$

$$\Rightarrow x = 45$$

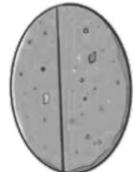
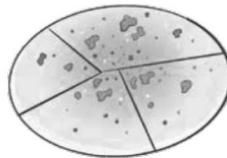
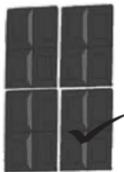
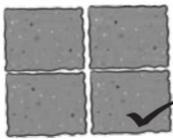
3. Fill in the boxes with '&gt;', '&lt;' or '=':

a.  $\frac{7}{13} \boxed{=}$   $\frac{7}{13}$

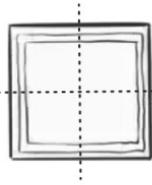
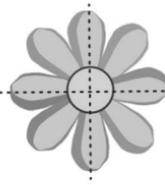
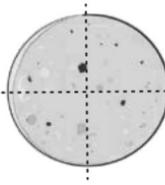
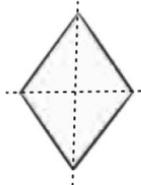
b.  $\frac{9}{23} \boxed{<}$   $\frac{16}{23}$  ( $\because 16 > 9$ )

c.  $\frac{8}{11} \boxed{>}$   $\frac{6}{11}$  ( $\because 8 > 6$ )

d.  $\frac{5}{7} \boxed{>}$   $\frac{2}{7}$  ( $\because 5 > 2$ )

**Worksheet 8.4**1. Tick ( $\checkmark$ ) the object that show quarters.

2. Draw lines to make a quarter of the whole.



3. Draw the remaining three quarters and complete the whole.

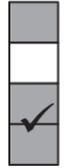
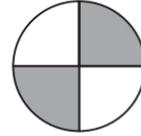
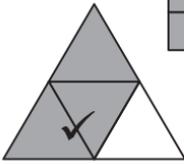
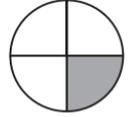
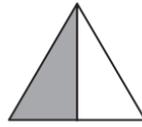
Do yourself

4. Draw the remaining quarters to complete the whole.

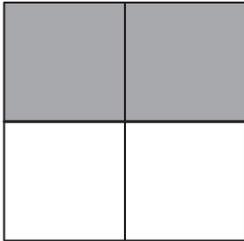
Do yourself

**Worksheet 8.5**

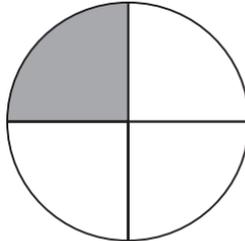
1. Tick (✓) the shapes below that show three-quarters.



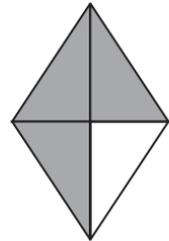
2. Colour the shapes below to show the fractions as instructed.



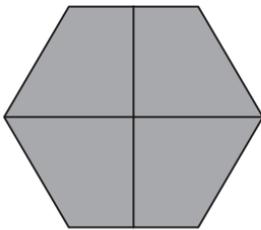
2 quarters



1 quarters



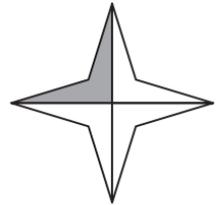
3 quarters



4 quarters

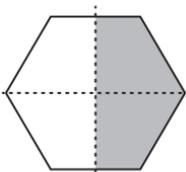


3 quarters

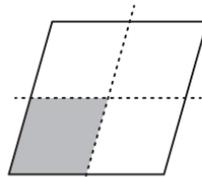


1 quarters

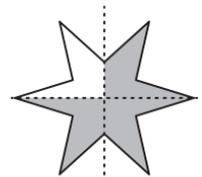
3. Draw lines and colour the shapes below to show the fractions as instructed.



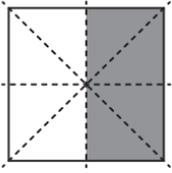
2 quarters



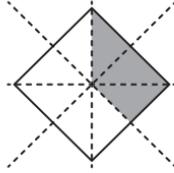
1 quarters



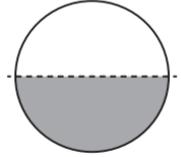
3 quarters



4 quarters



3 quarters



1 quarters

- Here is a rectangle which shows quarters. Discuss how.  
(Do yourself)
- Show quarters and halves in different ways in the grids given below. (Do yourself)



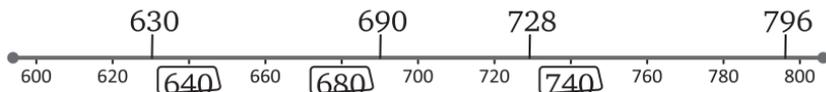
# House fo Hundreds-II

## Worksheet 9.1

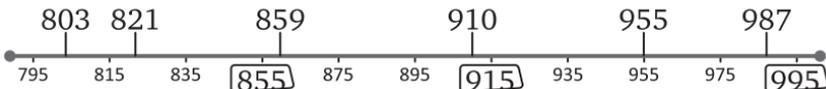
1. Write the number names of the following

- a. 832            Eight hundred thirty-two
- b. 947            Nine hundred forty-seven
- c. 726            Seven hundred twenty-six
- d. 504            Five hundred four
- e. 620            Six hundred twenty
- f. 700            Seven hundred

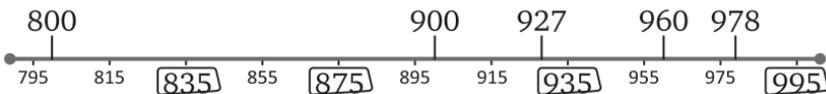
2. Let us locate the following numbers on the number line:  
630, 640, 728, 796, 690



3. Also locate the following numbers on the number line: 803, 821, 859, 910, 955, 987



4. Also locate the following numbers on the number line: 800, 815, 900, 927, 960, 978



## Worksheet 9.2

1. Write the appropriate numbers between which each of the given numbers lie.

Number	Neighbouring hundreds	Neighbouring fifties	Neighbouring tens
368	300 and 400	350 and 400	280 and 290
283	200 and 300	250 and 300	280 and 290
445	400 and 500	400 and 450	440 and 450
593	500 and 600	550 and 600	590 and 600

634	600 and 700	600 and 650	630 and 640
799	700 and 800	750 and 800	790 and 800

## 2. Help cranes reach their food using the number line.

To reach the worm

$$567 - 17 \text{ steps} = 550$$

Length of steps: 17

To reach the fish

$$567 + 33 \text{ steps} = 600$$

Length of steps: 33

To reach the worm

$$700 - 50 \text{ steps} = 650$$

Length of steps: 50.

To reach the fish

$$650 + 50 \text{ steps} = 700$$

Length of steps: 50

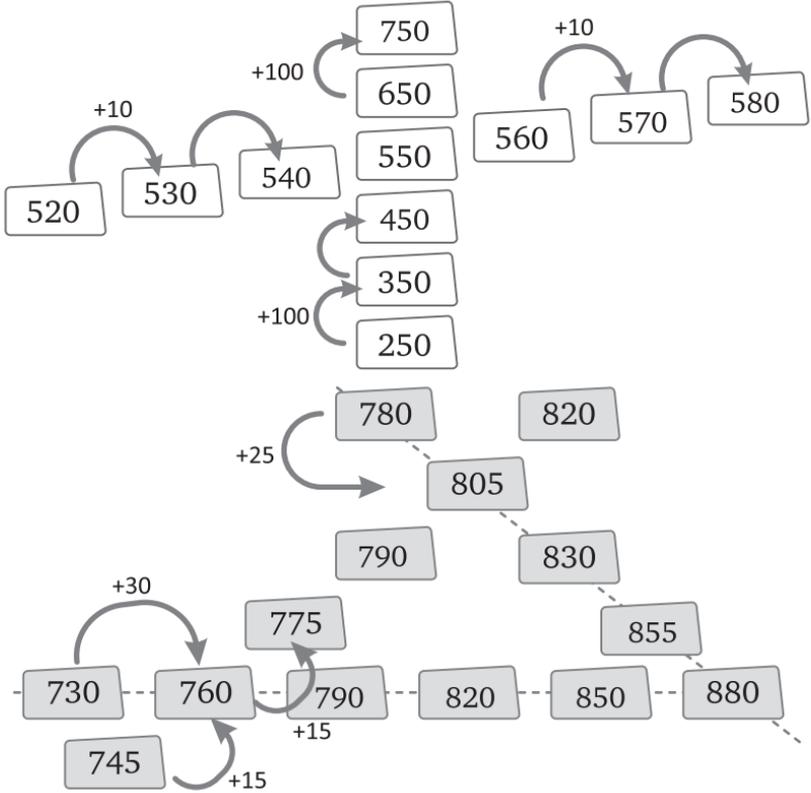
## Fun Time

### 2. Write different ways of making the following numbers.

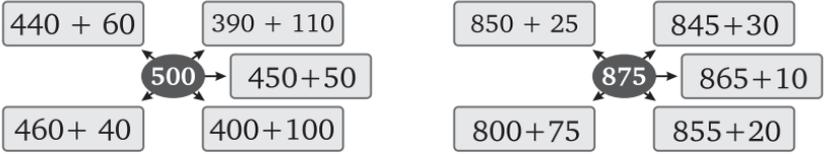
	4 hundreds 6 tens 8 ones			7 hundreds 0 ten 5 ones	
68 more than 400	468	32 less than 500 $500 - 32$		5 more than 700	705
					20 less than 725
	$400 + 60 + 8$			$700 + 0$ $+ 5$	
	3 hundreds 5 tens 5 ones			8 hundreds 3 tens 6 ones	
45 less than 400	355	55 more than 300		36 more than 800	836
					64 less than 900
	$300 + 50$ $+ 5$			$800 + 30$ $+ 6$	

## Worksheet 9.3

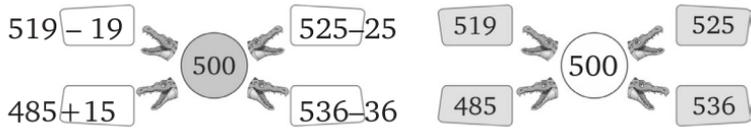
- Nitin and Jatin are resting. Bhumi asks them to complete the number patterns. Let us help them fill in the empty boxes.



2. Write number sentences for the numbers in the centre.



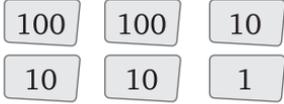
3. Write numbers in the blank spaces such that they meet the conditions.



**Worksheet 9.4**

1. I have 6 blank paper slips. I can write 100, 10 or 1 on each of them. What numbers can I make with these 6 slips? Discuss.

a. What will you write on these slips for making 231?



b. What will you write on these slips for making 141?



2. Make other numbers. (Do yourself)



# Fun at Class Party-!

## Worksheet 10.1

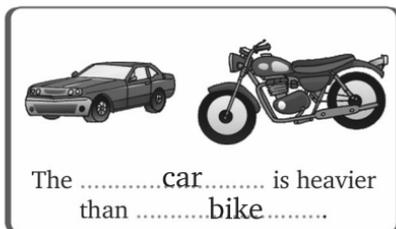
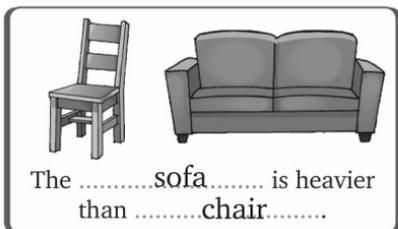
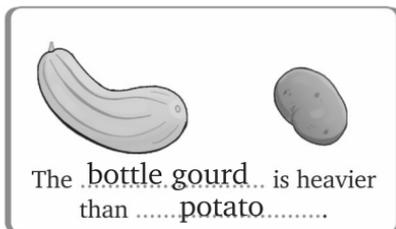
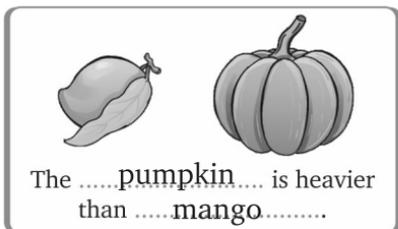
- Using body parts, measure the length of the following:  
(Do yourself)
- Write whether the lengths of the following are measured in **m** or **cm**.
  - The length of a  is in **m** .
  - The length of a  is in **m** .
  - The length of a  is in **m** .
  - The length of a  is in **m** .
- Measure the length of the following using a scale.  
(Do yourself)



# Filling and Lifting

## Worksheet 11.1

1. Fill in the blanks:

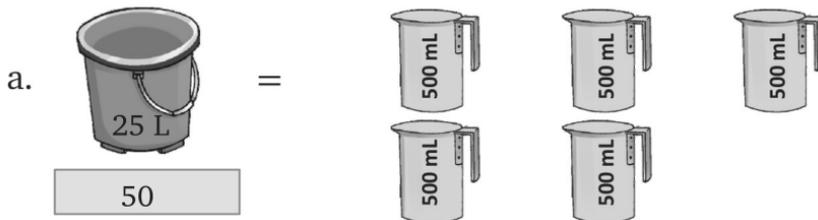


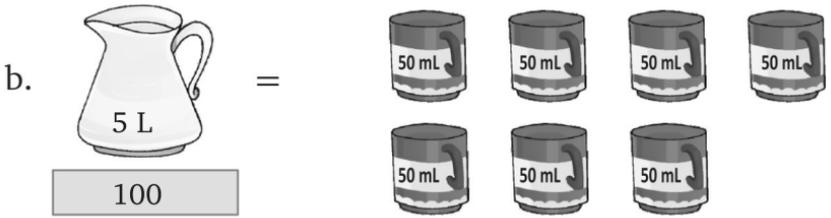
2. Write whether the mass of the following objects measure in g or kg:

- The mass of a **cycle** is in **kg**.
- The mass of a **mobile** is in **g**.
- The mass of a **rubber** is in **g**.
- The mass of a **geometry box** is in **g**.
- The mass of a **water bottle** is in **g**.

## Worksheet 11.2

1. Big container can be filled by along side small containers.





2. Write whether the capacity of the following are measured in mL or L.

- a. Tea in a **cup** is in **mL**.
- b. Water in a **cane** is in **L**.
- c. Juice in a **Juice Glass** is in **mL**.
- d. Syrup in a **bottle** is in **mL**.
- e. Milk in a **milk drum** is in **L**.

3. Convert the following in mL:

- a. 3 L = **3000 mL**
- b. 5 L = **5000 mL**
- c. 16 L = **16000 mL**
- d. 27 L = **27000 L**

Multiple Choice Questions

- 1. (c)
- 2. (b)
- 3. (c)
- d. (d)
- e. (b)
- f. (a)

Fun Time

2. Can you guess which of these things are likely to be lighter or heavier than 1 Kilogram? Put a tick (✓) mark in the appropriate box.

Objects							
More than 1 kg	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Less than 1 kg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



# Give and Take

## Worksheet 12.1

Add 3



Add 6



Subtract 5



Add 5

134

139

144

149

154

159

164

Subtract 7

257

250

243

236

229

222

215

Add 8

388

396

404

412

420

428

436

Subtract 8

431

423

415

407

399

391

383

## Worksheet 12.2

1. Add the following:

a.

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

b.

	H	T	O
	4	1	6
+	2	7	2
	6	8	8

c.

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

d.

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

e.

	H	T	O
	5	2	6
+	2	5	2
	7	7	8

f.

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

g.

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

h.

	H	T	O
	1	4	4
+	3	4	5
	4	8	9

2. Add the following:

a.

	H	T	O
	2	1	5
	3	0	4
+	1	5	0
	6	6	9

b.

	H	T	O
	4	2	7
	2	5	2
+	3	2	0
	9	9	9

c.

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

d.

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

**Worksheet 12.3**

1. Add the following:

a.

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

b.

	H	T	O
	1	1	
	2	8	8
+	6	9	7
	9	8	5

c.

	H	T	O
	1	1	
	1	6	4
+	7	5	9
	9	2	3

d.

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

e.

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

f.

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

g.

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

h.

	H	T	O
	1	1	
	3	5	4
+	4	5	6
	8	1	0

2. Add the following:

a.

	H	T	O
	1	2	
	8	2	9
	2	3	8
+	1	9	7
	8	6	4

b.

	H	T	O
	1	1	
	5	3	6
	1	8	7
+	2	7	5
	9	9	8

c.

	H	T	O
	2	2	
	4	6	8
	1	7	6
+	2	8	9
	9	3	3

d.

	H	T	O
	2	1	
	2	9	4
	4	6	7
+	1	6	3
	9	2	4

e.

	H	T	O
	2	1	
	4	8	8
	2	5	4
+	1	8	5
	9	2	7

f.

	H	T	O
	1	2	
	4	3	8
	2	5	6
+	2	3	7
	9	3	1

g.

	H	T	O
	1		
	3	5	2
	4	3	0
+	1	7	2
	9	5	4

h.

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

**Worksheet 12.4**

1. Subtract the following:

a.

	Th	H	T	O
	5	4	5	3
-	2	3	4	1
	3	1	1	2

b.

	Th	H	T	O
	3	9	6	8
-	2	7	2	4
	1	2	4	4

c.

	Th	H	T	O
	7	4	7	9
-	5	1	6	4
	2	3	1	5

d.

	Th	H	T	O
	5	0	0	8
-	2	0	0	4
	3	0	0	4

e.

	Th	H	T	O
	3	7	0	6
-	1	6	0	4
	2	1	0	2

f.

	Th	H	T	O
	8	9	6	4
-	4	5	3	2
	4	4	3	2

g.

	Th	H	T	O
	3	3	2	7
-	1	2	1	6
	2	1	1	1

h.

	Th	H	T	O
	5	3	8	6
-	3	2	7	2
	2	1	1	4

i.

	Th	H	T	O
	8	6	3	5
-	4	2	1	3
	4	4	2	2

### Worksheet 12.5

1. Use the grid below to solve the following questions. Colour your answers in the grid.

456 + 10 = 466

481 + 19 = 500

489 + 21 + 15 = 525

405 + 23 = 428

467 + 51 = 518

519 - 40 = 479

2. Do as directed.

Add 100	Add 10	Add 1
169	169	169
269	179	170
369	189	171
469	199	172
569	209	173
669	219	174

Add 100	Add 10	Add 1
354	354	354
454	364	355
554	374	356
654	384	357
754	394	358
854	404	359

### Worksheet 12.6

1. Total number of saplings = 356  
 Kishan distribute saplings = 63  
 Saplings left with him = 356 - 63  
 = 293

	H	T	O
	2	15	
	<del>3</del>	<del>5</del>	6
-		6	3
	2	9	3

2. Total collection of saplings = 508  
 He get more = 80  
 Saplings he have now = 588

	H	T	O
	5	0	8
+		8	0
	5	8	8

3. Kishan has sapling of herbs = 170  
 His friends have saplings of herbs = 36  
 More Kishan have than his friends =  $170 - 36$   
 = 134

	H	T	O
		6	10
	1	7	0
-		3	6
	1	3	4

### Critical Thinking Skills

- He ran on first day = 32 minutes  
 He ran on second day = 38 minutes  
 He ran on third day = 44 minutes  
 Here difference =  $38 - 32$   
 = 6  
 So, he will run on ninth day =  $32 + 8 \times 6$   
 = 80 minutes

### Mental Maths

- The sum of 400 and 300 is **700**.
- The sum of 400 and 500 is **900**.
- The sum of 600 and 200 is **800**.
- The sum of 250 and 550 is **800**.
- Fill in the blanks:**
  - $428 - 100 = 328$ .
  - $859 - 100 = 759$
  - $387 - 10 = 377$
  - $164 - 0 = 164$
- 25 less than 300 is equal to **275**
- 60 less than 450 is equal to **390**.

### Multiple Choice Questions:

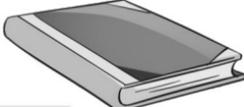
Tick (✓) the correct option:

- (b)
- (a)
- (b)
- (c)
- (a)
- (b)
- (c)
- (c)
- (c)

## Worksheet 12.7

1. How many notes and coins are required to purchase following things.

Tick (✓) the required number of notes:



 ✓
  ✓
  ✓
  ✓
  ✓
  ✓



 ✓
  ✓
  ✓
  ✓
  ✓
  ✓
  ✓
  ✓
  ✓



 ✓
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 ✓
  ✓
  ✓
  ✓
  ✓
  ✓
  ✓
  ✓
  ✓
  ✓

## Fun Time

Compare the given problem statements in each row, without calculating. Circle the one that is more. Share your thinking in class.

$473 + 23$

$473 + 40$

$340 + 10$

$304 + 10$

$800 + 9$

$790 + 60$

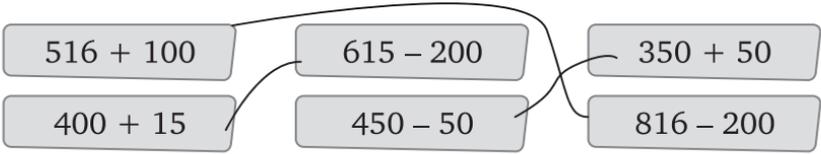
$245 - 45$

$245 - 54$

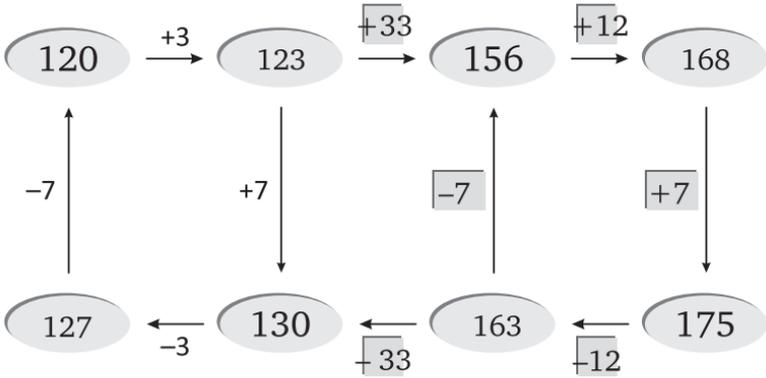
$700 - 8$

$600 - 8$

Find the pairs that are equal. Share your thinking in class.



Fill in the boxes with appropriate numbers.





# Time Goes On

## Worksheet 13.1

### 1. Fill in the blanks:

- Wednesday comes after **Tuesday** .
- Friday comes before **Saturday** .
- The fourth day of the week is **Thursday** .
- The first day of the week is **Monday** .

### 2. Fill in the blanks:

- If today is Sunday, then tomorrow will be **Monday** .
- If yesterday was Thursday, then today is **Friday** .
- If tomorrow is Sunday, then today is **Saturday** .
- If today is Friday, then yesterday was **Thursday**.

## Worksheet 13.2

### 1. Fill in the blanks:

- The year starts with **January** .
- The third month of the year is **March** .
- The **eleventh** month of the year is November.
- The **sixth** month of the year is June.
- The last month of the year is **December**.
- The month that comes before March is **February**.
- The month that comes after September is **October**.
- The month with 28/29 days is **February**.

### 2. Fill in the blanks:

- The Republic days comes in the month of **January**.
- The teacher's day comes in the month of **September**.
- The children's day comes in the month of **November**.
- The Independence day comes in the month of **August**.
- Gandhi Jayanti come in the month of **October**.
- Christmas comes in the month of **December**.

**Worksheet 13.3**

1. Look at the calendar of this year and answer the following questions:

- |  |               |
|--|---------------|
| a. On which day is your birthday?          | Do yourself   |
| b. On which day is your father's birthday? | Do yourself   |
| c. On which day is your mother's birthday? | Do yourself   |
| d. On which day is the Republic day?       | 26th January  |
| e. On which day is the children's day?     | 14th November |
| f. On which day is the teacher's day?      | 5th September |

**Mental Maths**

1. If today is Tuesday, then yesterday was **Monday**.
2. If tomorrow is Saturday, then today is **Friday**.
3. If yesterday was Sunday, then today is **Monday**.
4. If yesterday was Wednesday, then tomorrow will be **Friday**.
5. If today is Sunday, then tomorrow will be **Monday**.

**Multiple Choice Questions:**

Tick (✓) the correct option:

1. (c)
2. (d)
3. (d)
4. (c)



# The Surajkund Fair

## Worksheet 14.1

1. Draw the other halves to make symmetrical shapes:

Do Yourself

2. Write 'Yes' or 'No' for symmetrical figures about dotted line:

a. Yes

b. Yes

c. No

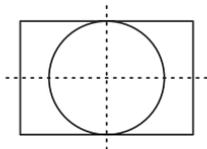
d. Yes

e. No

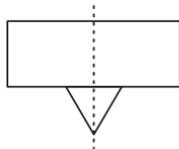
f. Yes

3. Draw the lines of symmetry for the following figures:

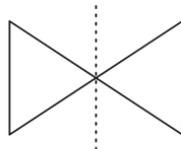
a.



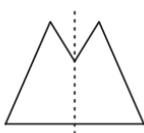
b.



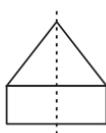
c.



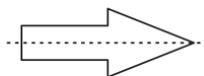
d.



e.



f.



4. Do yourself

## Worksheet 14.2

1. Complete the following patterns:

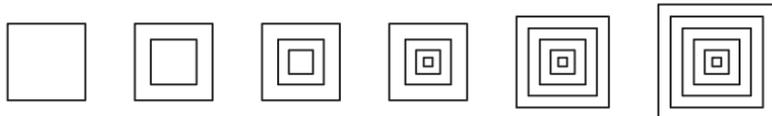
a.



b.



c.



d.



### Worksheet 14.3

1. Look the pattern of the following series and write the next 3 terms of each series:

- a. 90, 80, 70, 60, 50, 40, 30    b. 2, 4, 8, 16, 32, 64, 128  
 c. 5, 8, 11, 14, 17, 20, 23    d. 2, 4, 6, 8, 10, 12, 14

#### Mental Maths

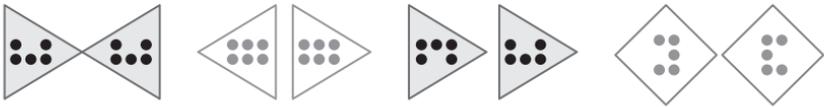
1. 3, 5, 7, 9, 11, 13, 15, 17  
 2. AZ BY CX DW, EV, FU, GT



5. 15, 13, 11, 9, 7, 5, 3, 1

### Worksheet 14.4

1. Pick the odd one out and give reasons.



Do yourself

2. Fill 4 boxes with red colour and 3 with blue colour in such a way that one side is the mirror image of the other.

(Do yourself)

3. Do yourself  
 4. Do yourself