

**DELHI PUBLIC SCHOOL GANDHINAGAR**

**CLASS: 3**

**SUBJECT: MATHS**

**ACADEMIC SESSION: 2024- 25**

**CHAPTER 9: MEASUREMENTS**

**MONTH: DECEMBER**

**Conversions:**

$$1 \text{ m} = 100 \text{ cm}$$

$$1 \text{ km} = 1000 \text{ m}$$

$$1 \text{ l} = 1000 \text{ ml}$$

$$1 \text{ kg} = 1000 \text{ g}$$

**Exercise 9.1**

**Q1. Write the correct unit of measurement for the following.**

- a. Length of a table cloth: m
- b. Weight of an apple: g
- e. Capacity of a spoon: ml

**Q2 Text book (Self Practice)**

**Exercise 9.2**

**Q1 Fill in the blanks.**

a. 1 litre = \_\_\_\_\_ ml  
1 litre = 1000 ml

c. 15 m = \_\_\_\_\_ cm  
1 m = 100 cm  
15 m =  $15 \times 100$   
= 1500 cm

f. 7 kg = \_\_\_\_\_ g  
1 kg = 1000 g  
7 kg =  $7 \times 1000$  g  
= 7000 g

**Q2. Convert the following as directed.**

a. 156 cm into m and cm

$$1 \text{ m} = 100 \text{ cm}$$

$$156 \text{ cm} = 156 \div 100$$

$$= 1 \text{ m } 56 \text{ cm}$$

c. 5267 km into km and m

$$1 \text{ km} = 1000 \text{ m}$$

$$= 5267 \div 1000$$

$$= 5 \text{ km } 267 \text{ m}$$

d. 3178 ml into ℓ and ml

$$1 \text{ ℓ} = 1000 \text{ ml}$$

$$3178 \text{ ml} = 3178 \div 1000 \text{ ℓ}$$

$$= 3 \text{ ℓ } 178 \text{ ml}$$

f. 6719 g

$$1 \text{ kg} = 1000 \text{ g}$$

$$= 6719 \div 1000$$

$$= 6 \text{ kg } 719 \text{ g}$$

g. 700 cm into m

$$1 \text{ m} = 100 \text{ cm}$$

$$700 \text{ cm} = 700 \div 100$$

$$= 7 \text{ m}$$

**Q3. My kites ----- in centimetres?**

Solution:

Height of kite flew in the sky = 30 m

Now, 1 m = 100 cm

$$30 \text{ m} = 30 \times 100 \text{ cm}$$

$$= 3000 \text{ cm}$$

**Q4. The weight ----- in grams?**

Solution:

Weight of watermelon = 2 kg

Now, 1 kg = 1000 g

$$2 \text{ kg} = 2 \times 1000 \text{ g}$$

$$= 2000 \text{ g}$$

### Exercise 9.3

**Q1 Solve the following.**

a)

<b>Kg</b>
4
+ 2
6 kg

b)

<b>Cm</b>
3 4 2
- 1 5 0
1 9 2 cm

c)

mℓ
5 0 0
+ 3 2 4
8 2 4 mℓ

f)

<b>kg</b>
9
- 6
3 kg

**Q2 State whether the following statements are true or false.**

- a. If 1ℓ of milk is added to 2 ℓ of milk, then the quantity of milk is 3 ℓ.

Ans: True

$$c. 580 \text{ cm} + 340 \text{ cm} = 920 \text{ cm}$$

Ans: True

$$e. 780 \text{ g} - 670 \text{ g} = 120 \text{ g}$$

Ans: False

### Exercise 9.4

**Q1. A person ----- walk in all ?**

Solutions:

$$\text{Distance walked in the morning} = 2 \text{ km}$$

$$\text{Distance walked in the evening} = 7 \text{ km}$$

$$\text{Total distance walked} = 7 \text{ km} + 2 \text{ km}$$

$$= 9 \text{ km}$$

**Q3. Shivam ----- bananas?**

Solutions:

$$\text{Weight of mangoes bought} = 400 \text{ g}$$

$$\text{Weight of bananas bought} = 250 \text{ g}$$

$$\text{Difference} = 400 \text{ g} - 250 \text{ g}$$

$$= 150 \text{ g}$$

**Q6. Rishi ran ----- he covers?**

Solution:

$$\text{Total distance of a marathon} = 780 \text{ m}$$

$$\text{Rishi fell short by} = 190 \text{ m}$$

$$\text{Distance covered by Rishi} = 780 \text{ m} - 190 \text{ m}$$

$$= 590 \text{ m}$$

**Q7 A jug holds ----- the jug? (H.W)**

## COMPETENCY BASED QUESTIONS

1. Which is same as 2 ℓ 500 ml?

- A) 25 ml      B) 2050 ml      C) 2500 ml      D) 250 ml

2. The most appropriate unit to measure distance between two cities is \_\_\_\_\_.

- A) Kilometre      B) Metre      C) Gram      D) Centimetre

3. Tick the correct ascending order.

- A) 4 ℓ, 2 ℓ, 8 ℓ      B) 7 ℓ, 4 ℓ, 3 ℓ      C) 2 ℓ, 4 ℓ, 6 ℓ      D) 9 ℓ, 5 ℓ, 8 ℓ

4. Compare and choose the correct sign. (<, >, or =)

750 cm \_\_\_ 820 cm

- A) <      B) >      C) =      D) None of these

5. Statement A:  $4 \text{ g} + 2 \text{ g} = 6 \text{ g}$

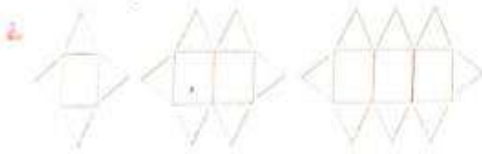
Statement B:  $7 \text{ g} - 2 \text{ g} = 5 \text{ g}$

- A) Statement A is correct.      B) Statement B is correct.  
C) Both the statements are correct.      D) Both the statements are incorrect.

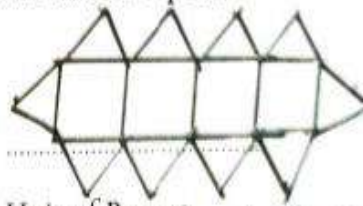


# Exercise 8.2

1. Extend the pattern. Also, write the rule and unit of repeat.



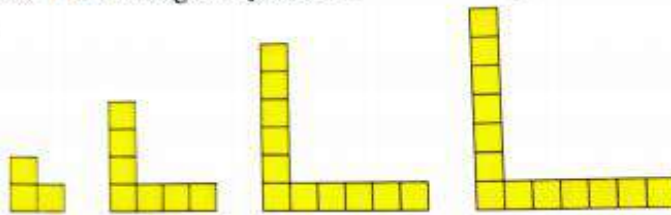
Rule: Add a square and 2 triangles



Unit of Repeat: 1 square and 2 triangles

2. Write **YES** if the given pattern is a decreasing pattern and **NO** if it is not.

a.



NO

b.



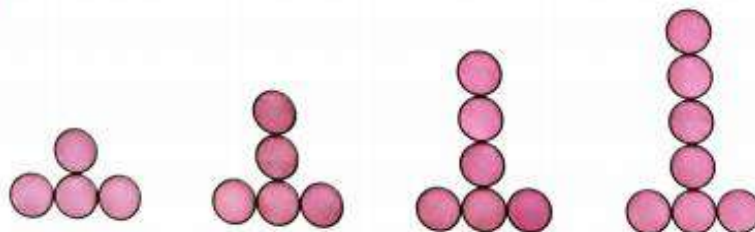
YES

c.



YES

d.

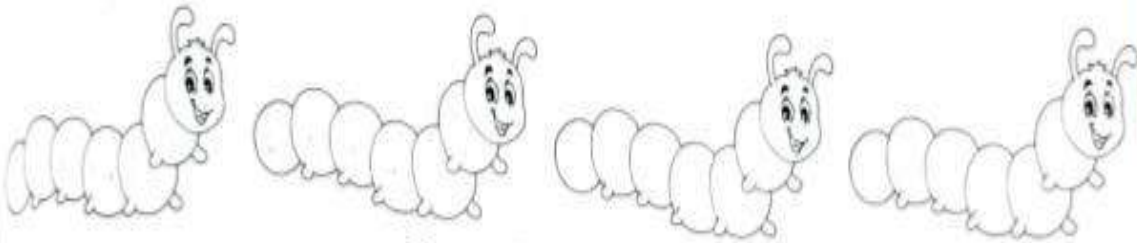


NO

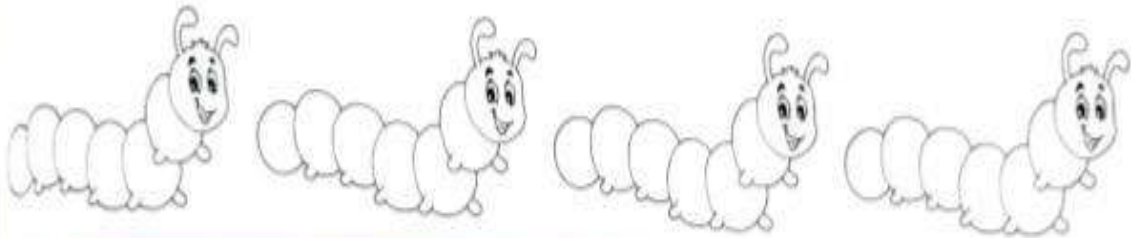
(H.W)

3. Colour the body of the caterpillar as directed.

### Increasing Pattern



### Decreasing Pattern



## Exercise 8.3

INT



1. Complete the table.



		SUM	PATTERN
FIRST EVEN NUMBER	2	2	$1 \times 2 = 2$
FIRST 2 EVEN NUMBERS	2, 4	$2 + 4 = 6$	$3 \times 2 = 6$
FIRST 3 EVEN NUMBERS	2, 4, 6	$2 + 4 + 6 = 12$	$6 \times 2 = 12$
FIRST 4 EVEN NUMBERS	2, 4, 6, 8	$2 + 4 + 6 + 8 = 20$	$10 \times 2 = 20$
FIRST 5 EVEN NUMBERS	2, 4, 6, 8, 10	$2 + 4 + 6 + 8 + 10 = 30$	$15 \times 2 = 30$



2. Circle the letter that should come next in the pattern.

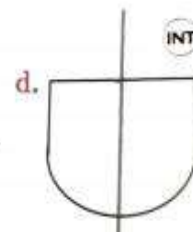
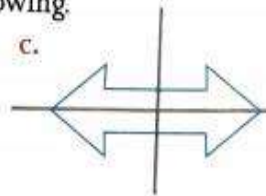
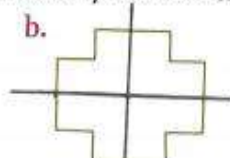
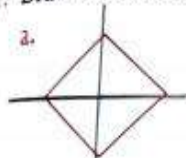
BABABABABABABABABABAB	A	B	C
ABBABBABBABBABBABB	A	B	C
CABCABCABCABCABCABC	A	B	C
AABCAABCAABCAABCAAB	A	B	C
ABCCABCCABCCABCCABCC	A	B	C

INT

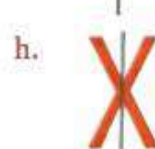


## Exercise 8.4

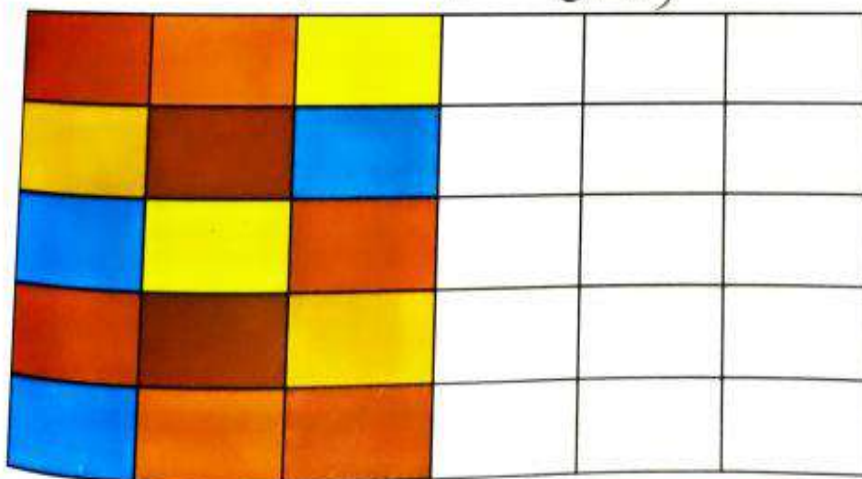
1. Draw the line of symmetry for the following.



INT



2. Use colours to make a symmetrical pattern. (H.W)



## COMPETENCY BASED QUESTIONS

1. What are the missing numbers in the pattern? 34, \_\_\_\_, 42, 46, \_\_\_\_, 54

Ans: The rule of the pattern is to add 4

$$34 + 4 = 38$$

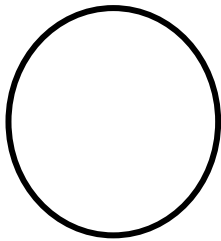
$$38 + 4 = 42$$

$$42 + 4 = 46$$

$$46 + 4 = 50$$

$$50 + 4 = 54$$

2. How many lines of symmetry does the following figure have?



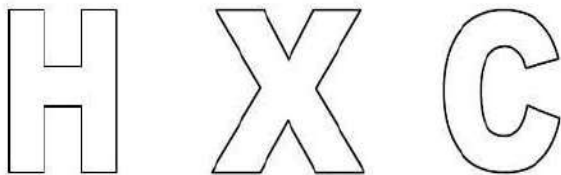
Ans: Infinite ( many , uncountable)

3. Observe the pattern and continue it.

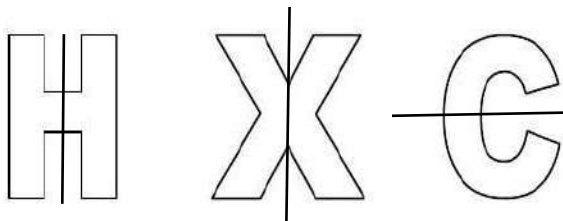
10AB , 20BC , 30CD , 40DE, \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Ans : 50 FG, 60 HI, 70 JK,

4. Draw lines of symmetry for the following Alphabets?



Ans



5. Complete the pattern: 110, 120, 130, \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

Ans: 140 , 150, 160

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**CHAPTER 5: DIVISION**

**SEPTEMBER & OCTOBER MONTH**

- Division is repeated subtraction.
- Dividend: The number that is to be divided.
- Divisor: The number that is used to divide the dividend into equal parts.
- Quotient: The number that we get after dividing the dividend by the divisor.
- The sign used for division is  $\div$
- The answer of division is quotient.
- Dividend  $\div$  divisor = quotient

**EXERCISE:5.1**

**1. Solve the given problems using repeated subtraction method.**

a)  $18 \div 6 = 3$

c)  $28 \div 4 = 7$

d)  $35 \div 5 = 7$

**2. Say Yes or No for each statement. Write the correct answer for the incorrect statement in the blanks.**

a)  $36 \div 4 = 8$  No correct answer is 9

c)  $56 \div 7 = 9$  No correct answer is 8

**3. Help Manisha and her friends solve these garden puzzles.**

a) There are 15 butterflies in total in a garden. On one flower, there are 3 butterflies each. How many flowers are there in the garden?

Solution : Number of butterflies = 15

Number of butterflies on one flower = 3

Number of flower =  $15 \div 3 = 5$

Ans : There are 5 flowers in the garden.

### **EXERCISE 5.2**

#### **1. Match the following with the correct term.**

a) $24 \div 8$ , here the quotient is	i) 9
a) $21 \div 3$ , here the dividend is	ii) 4
a) $49 \div 7$ , here the remainder is	iii) 21
a) $81 \div 9$ , here the quotient is	iv) 0
a) $36 \div 4$ , here the divisor is	v) 3

a) v b) iii c) iv d) i e) ii

### **EXERCISE 5.3( omitted)**

#### **EXERCISE 5.4**

##### **1. Fill in the blanks.**

a) If  $30 \div 5 = 6$ , then  $6 \times 5 = \underline{30}$

c) If  $56 \div 7 = 8$ , then  $\underline{8} \times 7 = 56$

e) If  $20 \div 5 = 4$ , then  $20 \div 4 = \underline{5}$

**3. Vasu gave 20 biscuits to 4 dogs to eat. Each dog got 5. If he to give 30 biscuits to 5 dogs, then how many biscuits will?**

Solution:

Number of biscuits = 30

Number of dogs = 5

Number of biscuits each dog got =  $30 \div 5$

$$= 6$$

### EXERCISE 5.5

#### 1. Divide.

a)

	0 6	
7	4 2	
--	4 2	
	0 0	

d)

	2 1	
4	8 4	
--	8	
	0 4	
-	4	
	0	

e)  $50 \div 5$  (H.W)

#### 2. Divide the following using long division method. Write the quotient and the remainder.

a)

	0 4	
5	2 4	
--	2 0	
	0 4	

Quotient = 4    Remainder = 4

c)

	1 1	
7	8 1	
--	7	
	1 1	
-	7	
	0 4	

Quotient = 11    Remainder = 4

e)  $89 \div 8$  (H.W)

**3. Fill in the blanks.**

a)  $85 \div 6$  gives quotient = 14 remainder = 1

c)  $26 \div 7$  gives quotient = 3 remainder = 5

d)  $89 \div 4$  gives quotient = 22 . remainder = 1

4. Match the following with their remainder.

a) $34 \div 3$	i 0
b) $29 \div 8$	ii 4
c) $16 \div 4$	iii 1
d) $70 \div 6$	iv 5

a) iii b) iv c) i d) ii

**EXERCISE 5.6**

**1. Divide**

a)  $648 \div 8$

	0	8	1
8	6	4	8
-	0		
	6	4	
-	6	4	
	0	0	8
-			8
			0

Quotient = 81    Remainder = 0

c)  $528 \div 3$

	1	7	6
3	5	2	8
-	3		
	2	2	
-	2	1	
	0	1	8
-		1	8
		0	0

Quotient = 176    Remainder = 0

d)  $724 \div 4$

**2. Divide the following using long division method. Write the quotient and the remainder.**

b)  $261 \div 6$

	0	4	3
6	2	6	1
-	0		

d)  $956 \div 9$

	2	6		
-	2	4		
	0	2	1	
-		1	8	
		0	3	

	1	0	6
9	9	5	6
-	9	5	6
	0	5	6
-		0	6
	0	5	6
-		5	4
	0	0	2

Quotient = 43    Remainder = 3

Quotient = 106    Remainder = 2

**3. Solve the following and connect the arrows.**

- a)  $619 \div 7$     Quotient = 304    No Remainder  
 b)  $831 \div 4$     Quotient = 88    Remainder = 3  
 c)  $912 \div 3$     Quotient = 207    Remainder = 3

4. Rushla had 194 crayons. She distributed them to 4 of her friends. The crayons that were left, she kept with herself. Help her find the; dividend , divisor ,quotient and remainder

	0	4	8
4	1	9	4
-	0	9	4
	1	9	4
-	1	6	4
	0	3	4
-		3	2
		0	2

dividend = 194    divisor = 4    quotient = 48 and remainder =2

**EXERCISE 5.7 ( omitted )**

**EXERCISE 5.8**

**1. Using properties of division, solve the following.**

- a)  $45 \div 1 = 45$     c)  $0 \div 3 = 0$   
 b)  $78 \div 78 = 1$     d)  $0 \div 811 = 0$

**2. Fill in the blanks with the correct answer.**

b) Joya has 60 chocolates for 60 days, so far 1 day she has \_\_\_\_ chocolates.

Ans  $60 \div 60 = 1$

c) It is \_\_\_\_ possible to get 3 as an answer if we divide 34 by 34.

Ans Not

2. What quotient do we get on dividing 99 by 1?

- a. 1      b. 4      c. 99      d. 0

Ans c. 99

3. What happens when we divide 600 by 600?

- a. We sometimes get 1.  
b. We always get 1.  
c. We get a magic candy from Santa.

Ans b. We always get 1.

4. How do we quickly solve this-  $0 \div 10$ ?

- a. We use number line.  
b. We use long division.  
c. We know it is 0 from properties of division

Ans c. We know it is 0 from properties of division

**EXERCISE 5.9**

**1. State True or False.**

a) Any number divided by 10 leads to 1 being the answer. \_\_\_\_\_

Ans: False

b)  $450 \div 10$  will give 45 as the remainder. \_\_\_\_\_

Ans: False

c)  $5610 \div 10 = 561$ . \_\_\_\_\_

Ans: True

**2. Help Froggie to quickly divide the following division sums.**

a)  $254 \div 10$ : Quotient = \_\_\_\_\_, Remainder = \_\_\_\_\_.

Ans: Q =25, R = 4



c)  $5119 \div 10$ : Quotient = \_\_\_\_\_, Remainder = \_\_\_\_\_.

Ans: Q = 511, R = 9

d)  $8440 \div 10$ : Quotient = \_\_\_\_\_, Remainder = \_\_\_\_\_.

Ans: Q = 844, R = 0

### EXERCISE 5.10

1. I have 18 balloons. I tie equal number of balloons on 3 poles. How many balloons does each pole have?

Solution:

Number of balloons = 18

Number of poles = 3

Number of balloons each pole have =  $18 \div 3$   
= 6

Ans ; Each pole have 6 balloons.

4. Jojo has a book with 1845 pages. Every chapter has the same number of pages. There are 9 chapters in total. How many pages are there in each chapter?

Solution:

Number of pages in a book = 1845

Number of chapters = 9

Number of pages in a chapter =  $1845 \div 9$   
= 205

Ans: There are 205 pages in each chapter.

7. Junaid has 3570 light bulbs. He wants to make 7 light strings with an equal number of bulbs. How many bulbs should he use in 1 light string?

Solution:

Number of light bulbs = 3570

Number of light strings = 7

Number of bulbs used in 1 light string =  $3570 \div 7$   
= 510

Ans: Junaid used 510 bulbs in 1 light string.

## COMPETENCY BASED QUESTIONS

### CHAPTER 5 : DIVISION

1. The dividend for the given division fact is \_\_\_\_\_

$$72 \div 8 = 9$$

Ans : 72

2. Read the following statement and choose the correct option.

Statement A:  $366 \div 366 = 1$

Statement B: When zero is divided by any number the answer is zero

- a) Statement A is correct B is wrong
- b) Statement B is correct A is wrong
- c) Both the statements are correct
- d) Both the statements are wrong

Ans: c) Both the statements are correct

3. Match the following.

1)  $81 \div 9$                       a) 7

2)  $64 \div 8$                       b) 9

3)  $49 \div 7$                       c) 8

Ans 1 b    2 c    3 a

4. If divide the greatest 3 digit number by 3, the answer is \_\_\_\_\_

Ans 333

5. 12 apples : 4 bowls . How many apples in each bowl?

Ans: 3 bowls

### REFLECTION BASED ON EL

1. I learnt terms of division and properties of division.

2. I learnt to Divide 2 and 3- digit numbers by 1- digit number.

**Google form link:**

<https://forms.gle/g91q1UrfivinkTGz8>

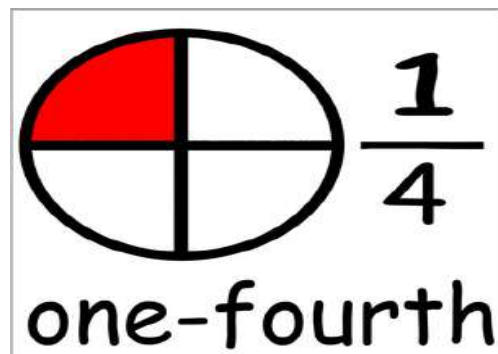
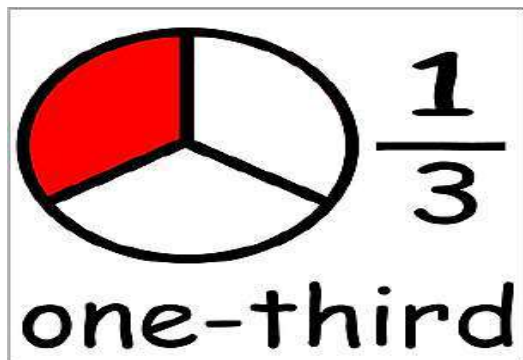
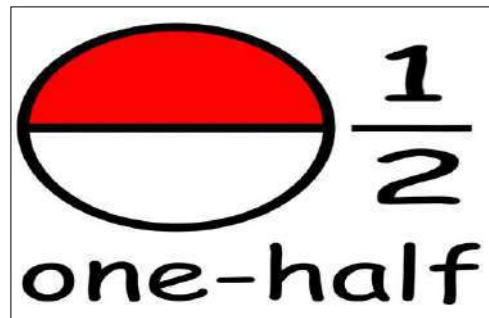
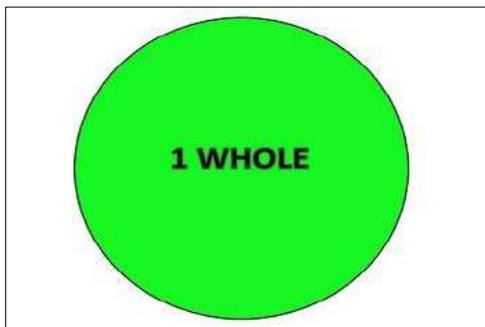
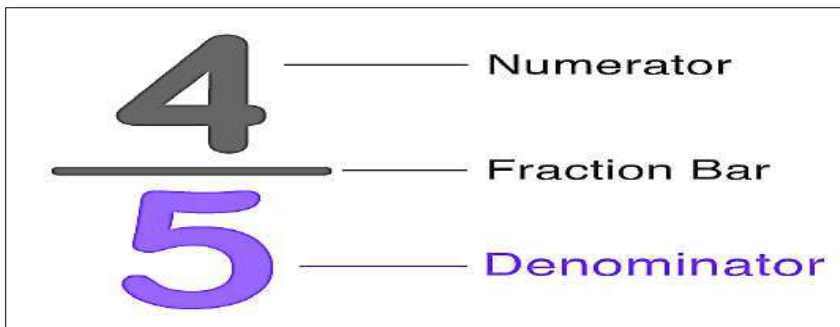
## Chapter -6 Fractions

### NOTEBOOK WORK:

#### DEFINITIONS:-

1. **Fraction** is a number that expresses equal parts of a whole object.
2. The number above the fraction bar is called the **Numerator**.
3. The number below the fraction bar is called the **Denominator**.

#### REPRESENTATION OF FRACTIONS:



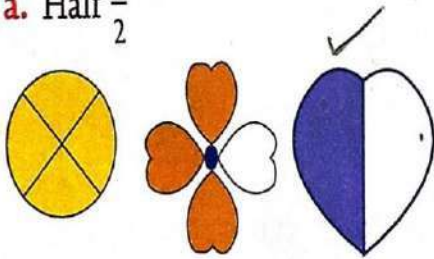
### TEXTBOOK WORK:



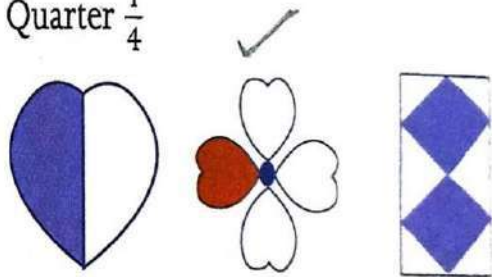
## Exercise 6.1

1. Identify which of the following figures represents the shaded region as given below

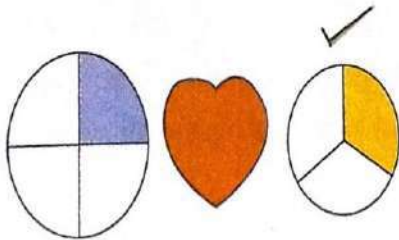
a. Half  $\frac{1}{2}$



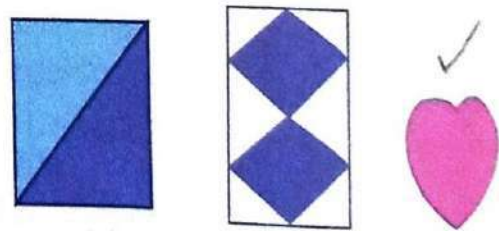
b. Quarter  $\frac{1}{4}$



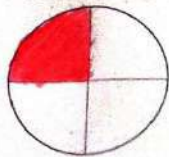
c. One-third  $\frac{1}{3}$



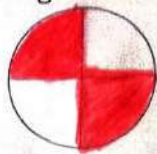
d. Whole



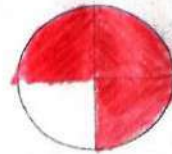
2. Colour the figure to represent the given fractions.



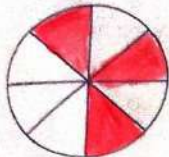
$$\frac{1}{4}$$



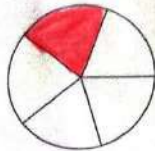
$$\frac{2}{4}$$



$$\frac{3}{4}$$



$$\frac{3}{8}$$



$$\frac{1}{5}$$

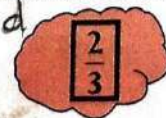
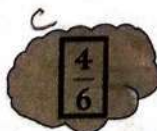
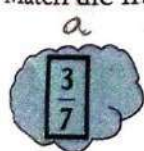


$$\frac{2}{3}$$

3. Write down what fraction of the figure is painted.

$\frac{2}{7}$	$\frac{3}{7}$	$\frac{1}{7}$	$\frac{1}{7}$	
$\frac{2}{20}$	$\frac{6}{20}$	$\frac{9}{20}$	$\frac{3}{20}$	
$\frac{4}{14}$	$\frac{2}{14}$	$\frac{4}{14}$	$\frac{4}{14}$	
$\frac{1}{7}$	$\frac{1}{7}$	$\frac{2}{7}$	$\frac{3}{7}$	

4. Match the fraction cloud with the correct number name by colouring them alike.



Four-sixths - c

One-fifths - e

Two-thirds

One-fourths - f

Three-sevenths - a

Six-eighths - b



# Fraction as a Part of a Collection

Scientific Proficiency Conceptual understanding

SVID



Do you know that a fraction is an equal part of a whole?



Yes, but a fraction could also be a part of a collection. For example, an egg from a pack of 6.

A collection is a group of things together.



This is a collection of 7 candles.

How many green candles are there? **3**







So, the fraction used to represent green candles will be written as  $\frac{3}{7}$ .

How many red candles are there? **3**

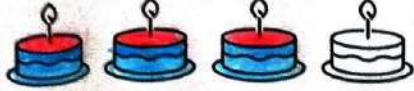

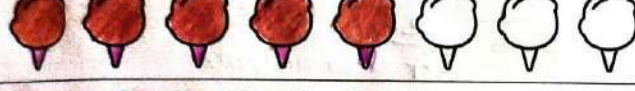
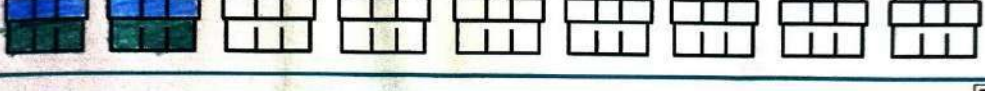
So, the fraction used to represent red candles will be written as  $\frac{3}{7}$ .

## Exercise 6.2

1. Which part of the set do the coloured objects represent? Circle the correct option.

- a. {  }  $\frac{1}{3}$   $\frac{3}{4}$   $\frac{1}{4}$
- b. {  }  $\frac{2}{3}$   $\frac{3}{5}$   $\frac{1}{2}$
- c. {  }  $\frac{3}{6}$   $\frac{3}{7}$   $\frac{1}{3}$
- d. {  }  $\frac{4}{4}$   $\frac{4}{8}$   $\frac{1}{4}$
- e. {  }  $\frac{1}{7}$   $\frac{1}{6}$   $\frac{6}{7}$
- f. {  }  $\frac{2}{4}$   $\frac{2}{3}$   $\frac{1}{3}$

2. Shade the following pictures to represent the given fraction.

- a.  $\frac{3}{4}$  
- b.  $\frac{4}{7}$  
- c.  $\frac{5}{8}$  
- d.  $\frac{2}{9}$  

INT

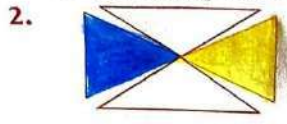


## Exercise 6.3

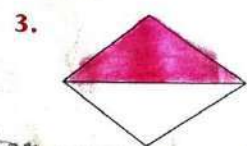
Colour the given parts and represent the following in fractional forms. Also, write the numerator and denominator for the following fractions.



Five parts  $\frac{5}{8}$  - Numerator  
8 - Denominator



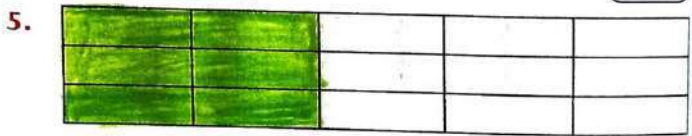
Two parts  $\frac{2}{4}$  - Numerator  
4 - Denominator



One part  $\frac{1}{2}$  - Numerator  
2 - Denominator



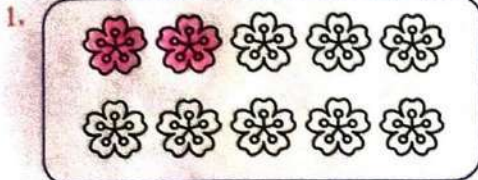
Three parts  $\frac{3}{4}$  - Numerator  
4 - Denominator



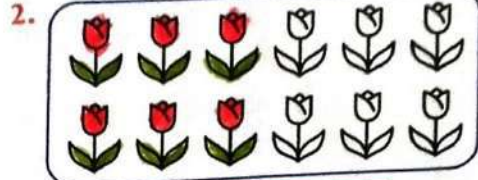
Six parts  $\frac{6}{12}$  - Numerator  
12 - Denominator

## Exercise 6.4

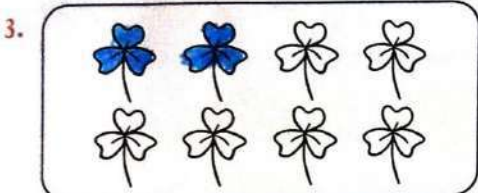
Solve the following and colour to represent the answer.



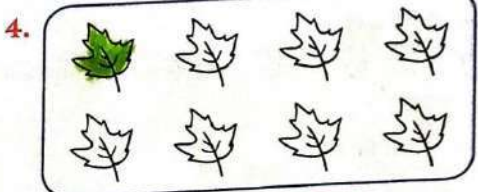
$\frac{1}{5}$  of 10 snowflakes  $10 \div 5 = 2$



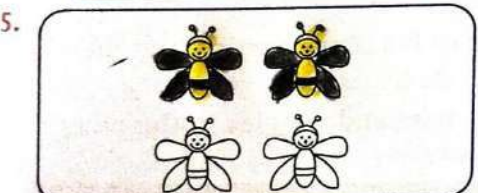
$\frac{1}{2}$  of 12 flowers  $12 \div 2 = 6$



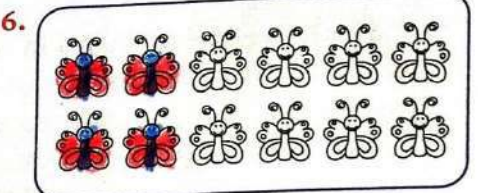
$\frac{1}{4}$  of 8 shamrock leaves  $8 \div 4 = 2$



$\frac{1}{8}$  of 8 leaves  $8 \div 8 = 1$



$\frac{1}{2}$  of 4 bees  $4 \div 2 = 2$



$\frac{1}{3}$  of 12 butterflies  $12 \div 3 = 4$



## **NOTEBOOK WORK:**

### **CBE QUESTIONS :-**

1. In a class there are 30 students.  $\frac{1}{2}$  of the class are boys, then how many number of boys in the class?

Ans:  $\frac{1}{2}$  of 30

$$30 \div 2 = 15$$

There are 15 boys in the class.

2. Ryan was very hungry, so he ate 5 out of 8 pancakes. What portion of total pancakes did he eat? Represent in fraction form.

Ans:  $\frac{5}{8}$

3. \_\_\_\_\_ halves make a whole.

Ans: **2**

4. In the given table, number of passengers travelled in a bus is given.

Men	Women	Children
12	10	5

- a) Write the fraction of women compared to total number of passengers?

$$\text{Total passengers} = 12 + 10 + 5 = 27$$

$$\text{Fraction of women in the bus} = \frac{10}{27}$$

- b) Write the fraction of men and children compared to total number of passengers?

$$\text{Number of men and children} = 12 + 5 = 17$$

$$\text{Fraction of men and children in the bus} = \frac{17}{27}$$

5. \_\_\_\_\_ quarters make a whole.

Ans: **4**

Google form:

<https://forms.gle/6aifeKCK5QZBp8Qq7>



**DELHI PUBLIC SCHOOL, GANDHINAGAR**

**CLASS: 3**

**SUBJECT: MATHS**

**Academic Session 2024-25**

**AUGUST MONTH**

**CHAPTER 4 MULTIPLICATION (CONTINUE)**

**Comptency Based Questions:**

1. The same number has to be put in BOTH the boxes below. What is the number?

Fill in the blank

3	x	27	=	<u>9</u>	x	<u>9</u>	
---	---	----	---	----------	---	----------	--

2. Fill in the missing alphabets:

	H	T	O
		2	5
x		1	4
	1	A	0
	2	5	0
	B	5	0

Ans: A = 0, B = 3

3. Fill in the blank:

$$380 \times \underline{0} = 0$$

4. What is the product of face value and place value of digit 3 in 4379?

Ans:  $300 \times 3 = 900$

5. Fill the correct number:

$$7 \times 5 = \underline{5} \times 7$$

Reflection:

- I have learnt: -
- Multiplication of a 2- and 3-digit number by a 1- and a 2-digit number.
- Multiplication by 10, 100, 1000.
- Properties of multiplication.

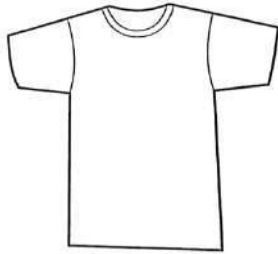
## CHAPTER 7 GEOMETRY

### Exercise 7.1

1. Cross out (x) the numbers which are made up of only straight lines, tick (✓) the numbers which are made up of only curved lines and circle (○) the numbers which are made up of both straight and curved lines.



2. Colour the horizontal lines blue, slanting lines red, vertical lines orange and curved lines green. Also write down the number of lines in the given picture.



Number of horizontal lines = 1

Number of vertical lines = 2

Number of slanting lines = 6

Number of curved lines = 5

# Plane Shapes

Scientific Proficiency Conceptual understanding

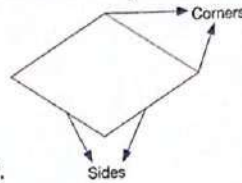
The shapes which have only 2 dimensions – length and width – are called plane shapes or 2-dimensional shapes. For example, triangle, rectangle, square, circle and oval are all plane shapes or 2-dimensional shapes.

Every plane shape has sides and corners.

The lines that form a shape are known as **sides**.

The point at which two sides meet is a **corner**.

Let us take a look at plane shapes and their attributes.



**SQUARE**  
4 equal sides  
4 corners



**RECTANGLE**  
4 sides (opposite sides are equal)  
4 corners



**TRIANGLE**  
3 sides  
3 corners



**CIRCLE**  
No sides  
No corners



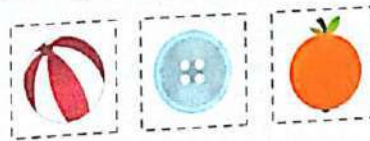
**OVAL**  
No sides  
No corners

Name the plane shapes which are made of curved lines and shapes which are made of straight lines.

Here, all the given real-life examples have a common shape.

The shape is a .....

We know that a circle is a closed shape with no sides or corners.

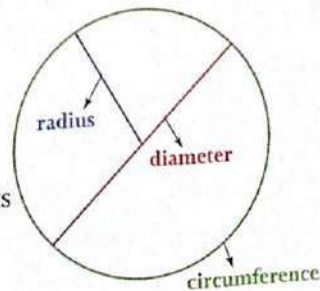


## Terms Related to Circle

The outline or the boundary of a circle is called **circumference**.

The distance between any point on the circumference and the centre is called the **radius** of the circle.

A straight line that runs from one end of the circle to its opposite end is called the **diameter** of the circle.



In all the figures given above, the ends meet. So, they are called closed figures. If the ends do not meet and the figures are open, they are called open figures.

### Exercise 7.2

#### 1. Who am I?

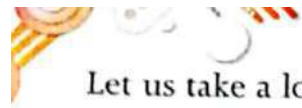
- a. All my sides are equal. **Square**
- c. My opposite sides are equal. **Rectangle**
- b. I look like a mountain. **Triangle**
- d. I am round. **Circle**

#### 2. Complete the given table.

	Number of sides	Number of Corners
Circle	0	0
Triangle	3	3
Rectangle	4	4
Oval	0	0
Square	4	4

#### 3. Fill in the blanks.

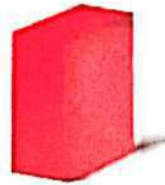
- a. The length of the boundary of the circle is called its **circumference**.
- b. The fixed distance between the centre and any point on the circle is called the **radius** of the circle.
- c. A circle is made up of **curved** lines.
- d. The point at which two sides meet is called **corner**.



Let us take a look at these solid shapes and their attributes.



CUBE  
6 flat faces  
12 edges  
8 vertices



CUBOID  
6 flat faces  
12 edges  
8 vertices



CYLINDER  
2 flat faces  
1 curved face  
2 edges  
0 vertices



CONE  
1 flat face  
1 curved face  
1 edge  
1 vertex



SPHERE  
1 curved  
0 edges  
0 vertices

### Exercise 7.3

1. Fill in the blanks.

- The three dimensions in a solid shape are known as **length**, **width** and **height**.
- The point at which two edges meet is known as **vertex**.
- The line at which the faces meet is called **edge**.
- A cuboid has **6** faces, **12** edges and **8** vertices.

2. Complete the table.

	faces	edges	vertices
Cube	6	12	8
Sphere	1 curved	0	0
Cone	1 flat, 1 curved	1	1
Cuboid	6	12	8
Cylinder	2 flat, 1 curved	2	0



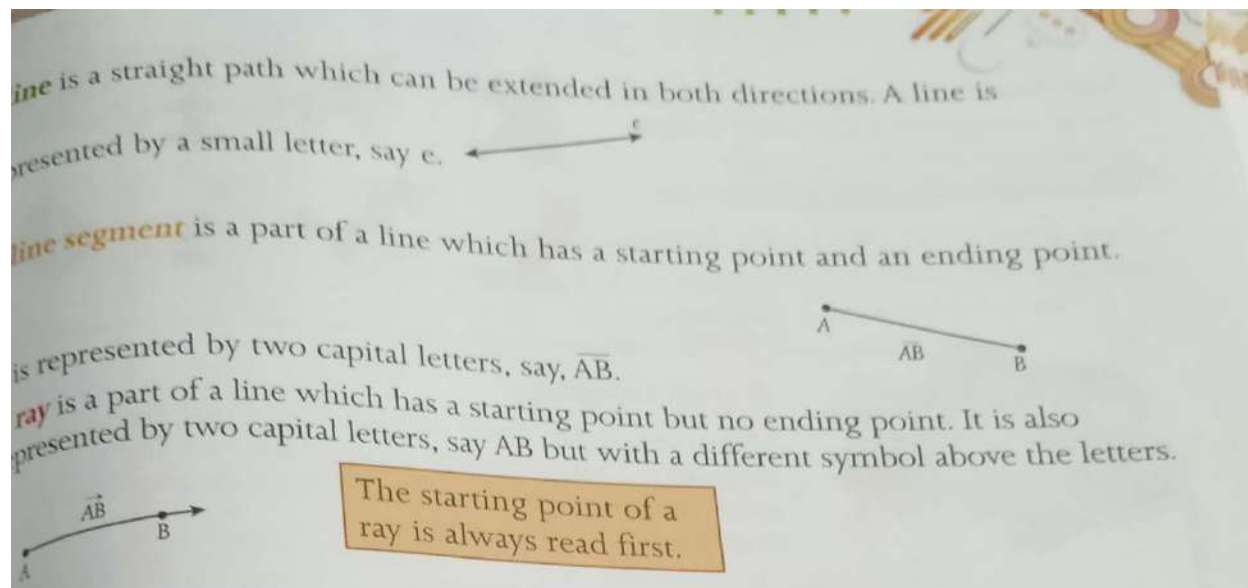
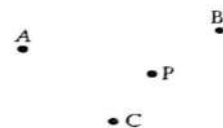
## Point, Line, Line Segment and Ray

Scientific Proficiency

Conceptual understanding

IVIC

A **point** is an exact location on a plane represented by a dot. A point is always referred by a capital letter, say point A, B, P, C.



### Exercise 7.4

1. Fill in the blanks.

- A **point** is an exact position or location on a plane surface.
- A figure which has only length but no width and can be extended endlessly in both directions is a **line**.
- A portion of line which has two end points is called a **line segment**.

d. The following diagram is represented as ray  $\overrightarrow{AB}$




e. A ray is a part of a **line**.

2. Take a square dot grid sheet and draw a line segment, a curved line, slanted/diagonal lines using different coloured sketch pens.

**To be done in practice notebook.**

### **Competency Based Questions**

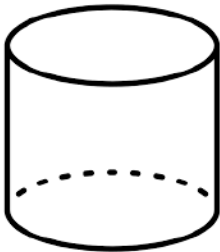
1. This is a shape of a rectangle. 

It has 4 corners. Name one another shape which has exactly four corners. Draw the shape.

Ans: Square



2. Identify the shape and write its faces, edges and vertices.

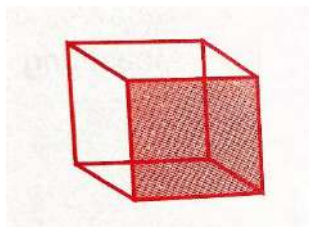


Number of faces = **2 flat, 1 curved**

Number of edges = **2**

Number of vertices = **0**

3. Name the shape of shaded face.



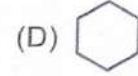
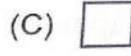
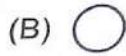
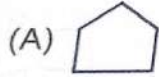
**(A) Square**

(B) Circle

(C) Pentagon

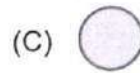
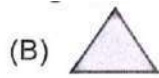
(D) Triangle

4. Which of these have exactly 5 corners?



Ans: (A) Pentagon

5. Which of the following is a 3-D shape?



Ans: (D) Cone

## CHAPTER 10 TIME

### Exercise 10.1

1.

The matching pairs are:

- Quarter past 10
- Quarter to 2
- Quarter to 5
- Quarter past 7
- 12:15
- 15 minutes to 10

2. a.

Quarter past 9

b.

15 minutes to 7

c.

6:15

d.

15 minutes past 1

e.

4:45

f.

Quarter to 4

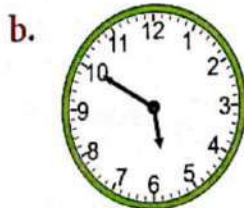


## Exercise 10.2

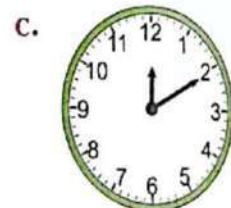
1. Read the clocks and write the time correctly.



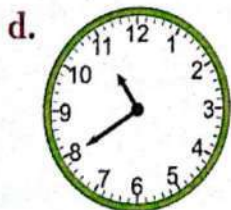
8:20



5:50



12:10



10:40



5:55



11:35

2. Read the statements and draw the hands showing the end time on the clock face.

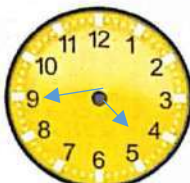
John's class begins at 8 o'clock. The class is 35 minutes long. When will his class be over?



Jaideep works in his garden for 30 minutes every day. He starts at 5 o'clock. At what time will he finish his work?



Rita goes swimming at 4 o'clock. She swims for 45 minutes. When does her class end?



Manisha is baking a cake for the family. She kept the batter in the oven at 11 o'clock. It will take 35 minutes to cook. When will it be ready?





## Exercise 10.3

INT



Refer to the calendar and answer the following questions.

1. How many days are there in the month of May 2022?

31 days

2. The number of Tuesdays in the whole month is

5

3. What is the date on the third Friday of the month?

20th May

4. What date is the fourth Thursday of the month?

26th May

5. How many Sundays are there in the month of May?

5

6. What is the day on the 1st of May 2022?

Sunday

7. Which month comes after May?

June

8. On which dates do the second and fourth Saturdays fall?

14<sup>th</sup> May, 28<sup>th</sup> May



### Exercise 10.4

Write YES or NO.

10 October 2010  
is written as  
10/10/2010

Yes

14 February 2021  
is written as  
2021/14/02

No

31 August 2015  
is written as  
08/2015/31

No

22 September  
2009 is written  
as 09/22/2009

No

### Competency Based Questions

1. 8 July 2014 is written as:

a. 07/18/2014

b. 18/07/2014

c. 2014/07/18

d. 2014/18/07

2. When showing the sign of quarter past, the minute hand completes how many quarters of the clock?

a. 1

b. 2

c. 3

d. 4

3. Sarthak went to the park for 30 minutes at the time shown. What time will it be when he returns?

a. 5:00

b. 4:55

c. 5:10

b. 5:15

4. If it is 10.30 am now, where will the hands of a clock be ONE HOUR from now?

Option A



A.

Option B



B.

Option C



C.

Option D



D.

5. "If the MINUTE hand of a clock is at 6, the time shown by the clock could be".

a. 09:20

b. 12:00

c. 02:30

d. 06:00

Reflection:

I have learnt: -

- Quarter past and quarter to
- Telling time to 5 minutes correctness
- Writing date





**DELHI PUBLIC SCHOOL, GANDHINAGAR**

**CLASS: 3**

**SUBJECT: MATHS**

**Academic Session 2024-25**

**JULY MONTH**

**CHAPTER 3 SUBTRACTION (CONTINUE)**

**Exercise 3.4**

**1. Subtract the numbers.**

a.

	Th	H	T	O
		6	14	
	9	<del>7</del>	<del>4</del>	6
-	8	2	9	4
	1	4	5	2

c.

	Th	H	T	O
		7	9	10
	4	8	<del>0</del>	<del>0</del>
-	1	1	1	4
	3	6	8	6

e.

	Th	H	T	O
			2	15
	4	2	<del>3</del>	<del>5</del>
-	1	2	1	9
	3	0	1	6

**2. Subtract to choose the correct option. (TEXTBOOK)**

4038 – 2574	<b>1464</b>
8527 – 375	<b>8152</b>
7800 - 1786	<b>6014</b>

<b>6014</b>	<b>1464</b>	<b>8152</b>
-------------	-------------	-------------

### Exercise 3.5

Subtract and check your answer.

1.

	Th	H	T	0
	2	9	12	10
	3	0	3	0
-	1	3	8	8
	1	6	4	2

	Th	H	T	0
	1	1	1	
	1	6	4	2
+	1	3	8	8
	3	0	3	0

3.

	Th	H	T	0
		8	13	
	7	9	3	8
-	5	8	9	8
	2	0	4	0

	Th	H	T	0
		1		
	2	0	4	0
+	5	8	9	8
	7	9	3	8

#### Properties of Subtraction (ONLY EXPLANATION)

If we subtract zero from a number, then the answer is the number itself. For example,  $2324 - 0 = 2324$ .

If we subtract a number from the same number, then the answer is always zero '0'. For example,  $6435 - 6435 = 0$ .

If we subtract 1 from a number, then the answer is the predecessor of the given number. For example,  $2499 - 1 = 2498$ .

### Exercise 3.6

1. Solve the following.

a.  $950 - 950 = \underline{0}$

d.  $4000 - 0 = \underline{4000}$

e.  $1276 - 1 = \underline{1275}$

## 2. State True or False.

a.  $6050 - 6050 = 6050$  **False**

d.  $2097 - 2097 = 0$  **True**

f.  $9999 - 1 = 9999$  **False**

**Word Problems** Scientific Proficiency Strategic competence

To solve any word problem, we apply **UPDC** strategy.

**UPDC Strategy**

- U – UNDERSTAND:** Read and think about the problem.
- P – PLAN:** Decide which operation you should use to solve the problem.
- D – DO:** Solve the problem with the planned operation.
- C – CHECK:** Always recheck your answer.

In a school, there are 3926 students. If 1572 students are girls, how many boys are there in total?

Total students	=	3926
Number of girls	=	<u>- 1572</u>
Number of boys	=	<u>2354</u>

Thus, there are 2354 boys in the school.

### Exercise 3.8

1. There are 245 bird families living near the mountains. If 132 bird families flew away for the winter, how many bird families are left near the mountains?

Solution:

Number of bird families living near the mountains = 245

Number of bird families flew away for the winter = 132

Number of bird families left near the mountains =  $245 - 132$

Ans: 113 bird families are left near the mountains.

4. There were 590 passengers on a ship. Out of them, 380 were adults. How many children were present on the ship?

Solution:

Number of passengers on a ship = 590

Number of adults = 380

Number of children = 590 - 380

Ans: 210 children were present on the ship.

5. Jim has 1256 cupcakes in his shop. He gave away 257 cupcakes to one customer and 349 cupcakes to another customer. How many cupcakes remain with Jim now?

Solution:

Number of cupcakes in his shop = 1256

Total number of cupcakes he gave away to customers = 257 + 349

Ans: 650 cupcakes remain with Jim now.

9. In a mega store, there were 4680 bags of sugar, but the supplier delivered only 2724 bags on Monday. On Tuesday, he was supposed to deliver the rest of the bags. How many bags were supposed to be delivered on Tuesday?

Solution:

Number of bags of sugar in a mega store = 4680

Number of bags delivered on Monday = 2724

Number of bags supposed to be delivered on Tuesday = 4680 - 2724

Ans: 1956 bags were supposed to be delivered on Tuesday.

### **CBE QUESTIONS**

Q1. Find 100 less than the smallest 4-digit number.

Ans: 1,000 - 100 = 900

Q2. The difference between 456 tens and \_\_\_\_\_ is 2456. What number should come in the blank?

Ans: 456 tens = 4560

$$4560 - 2456 = 2,104$$

Q3. Compare the following: (Put the sign  $<$ ,  $>$ ,  $=$ )

4 thousands 3 hundreds 2 tens 6 ones  $\geq$  4 thousands 3 hundreds 1 tens 6 ones

Ans:  $4326 > 4316$

Q4. Subtract the smallest 4-digit number from the greatest 4-digit number.

Ans:  $9,999 - 1,000 = \underline{8,999}$

Q5. The difference of two numbers is 7200. If one of the numbers is 8000, what will be the other number?

Ans:  $8,000 - 7,200 = 800$

## CHAPTER 4 MULTIPLICATION

### Introduction (EXPLANATION ONLY)

Multiplication is repeated addition. The number to be multiplied is known as the multiplicand. The number by which the multiplicand is multiplied is known as the multiplier. The answer that we get after multiplication is called the product.

	T	O		
	2	3	→	<b>Multiplicand</b>
×		3	→	<b>Multiplier</b>
	6	9		<b>Product</b>

### Exercise 4.1

#### Fill in the blanks.

1.  $7 \times 7 = \underline{49}$

2.  $10 \times 9 = \underline{90}$

4.  $4 \times 8 = \underline{32}$

6.  $6 \times 7 = \underline{42}$

H.W. 8.  $8 \times 9 =$

### Exercise 4.2

#### Q.1. Multiply to fill in the missing numbers in the products.

a.

	H	T	O
		2	3
×			2
		<b>4</b>	<b>6</b>

c.

	H	T	O
		3	3
×			3
		<b>9</b>	<b>9</b>

d.

	H	T	O
		<b>2</b>	
		6	4
×			6
	<b>3</b>	<b>8</b>	4

Q.2. Harry solved these multiplication sums. He has made some mistakes. Find out the mistakes made and write the correct answers.

a.

	H	T	O
		6	5
×			5
	3	7	0

Correct answer

	H	T	O
		2	
		6	5
×			5
	3	2	5

d.

	H	T	O
		4	2
×			2
		4	4

Correct answer

	H	T	O
		4	2
×			2
		8	4

f. H.W.

### Exercise 4.3

Q.1. Multiply the following sums.

a.

	H	T	O
	3	2	1
×			3
	9	6	3

c.

	H	T	O
	4	3	2
×			2
	8	6	4

f.

	H	T	O
	1	1	
	1	4	4
×			4
	5	7	6



**2. Solve:**

b.  $321 \times 2 = \underline{642}$

	H	T	O
	3	2	1
×			2
	6	4	2

d.  $264 \times 3 = \underline{792}$

	H	T	O
	1	1	
	2	6	4
×			3
	7	9	2

e.  $427 \times 2 = \underline{854}$

	H	T	O
		1	
	4	2	7
×			2
	8	5	4

**Exercise 4.4**

**Q.1. Multiply the following.**

a.  $33 \times 22$

	H	T	O
		3	3
×		2	2
	1	6	6
+	6	6	0
	7	2	6

d.  $42 \times 23$

	H	T	O
		4	2
×		2	3
	1	2	6
+	8	4	0
	9	6	6

**Q.2. Solve the following.**

a.

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

c.

	Th	H	T	O
			2	
			1	
			3	7
×			4	2
		1	7	4
+	1	4	8	0
	1	5	5	4

f.

	Th	H	T	O
			4	
			5	
			9	8
×			5	7
	1	6	8	6
+	4	9	0	0
	5	5	8	6

### Exercise 4.5

Q.1. Solve the sums.

a.  $121 \times 2$

	H	T	O
	1	2	1
×			2
	2	4	2

d.  $222 \times 3$

	H	T	O
	2	2	2
×			3
	6	6	6

f.

	Th	H	T	O
		2	2	
		5	5	5
×				5
	2	7	7	5

Q.2 Multiply the following.

a.

	Th	H	T	O
		1	1	2
×			1	3
		3	3	6
+	1	1	2	0
	1	4	5	6

c.

	Th	H	T	O
		3	2	1
×			1	4
	1	2	8	4
+	3	2	1	0
	4	4	9	4

e.

	Th	H	T	O
		4	3	3
×			2	2
		8	6	6
+	8	6	6	0
	<b>9</b>	<b>5</b>	<b>2</b>	<b>6</b>

### Exercise 4.6

**Multiply the following:**

1.  $12 \times 10 = \underline{120}$

2.  $8 \times 100 = \underline{800}$

3.  $24 \times 20 = \underline{480}$

4.  $3 \times 1000 = \underline{3000}$

7.  $2 \times 40 = \underline{80}$

8.  $75 \times 30 = \underline{2250}$

11.  $25 \times 1 = \underline{25}$

12.  $571 \times 0 = \underline{0}$

### Exercise 4.7

**1. In a classroom, there are 13 tables. How many tables can be found in 3 classrooms?**

**Solution:**

Table in 1 classroom = 13

Table in 3 classrooms =  $13 \times 3$

	T	O
	1	3
×		3
	<b>3</b>	<b>9</b>

Ans: 39 tables can be found in 3 classrooms.

5. There are 24 people seated in one row in the hospital waiting room. How many people can be found in 12 rows?

**Solution:**

Capacity of one row = 24

Capacity of 12 rows =  $24 \times 12$

	H	T	O
		2	4
×		1	2
		4	8
+	2	4	0
	2	8	8

Ans: 288 people can be found in 12 rows.

7. An English textbook has 125 pages. How many pages can be found in 32 books?

**Solution:**

Number of pages in English textbook = 125

Number of pages in 32 such books =  $125 \times 32$

	Th	H	T	O
			1	
			1	
		1	2	5
×			3	2
		2	5	0
+	3	7	5	0
	4	0	0	0

Ans: 4000 pages can be found in 32 books.

**DELHI PUBLIC SCHOOL, GANDHINAGAR**

**CLASS: 3**

**SUBJECT: MATHS**

**Academic Session 2024-25**

**JUNE MONTH**

**CHAPTER- 2**

**ADDITION**

**Exercise 2.1**

**1. Add the following.**

**a.**

	<b>H</b>	<b>T</b>	<b>0</b>
	7	5	4
+	2	4	3
	<b>9</b>	<b>9</b>	<b>7</b>

**c. H.W.**

	<b>H</b>	<b>T</b>	<b>0</b>
	5	8	3
+	2	1	2
	<b>7</b>	<b>9</b>	<b>5</b>

**e.**

	<b>H</b>	<b>T</b>	<b>0</b>
	5	6	3
	2	1	4
+	1	2	2
	<b>8</b>	<b>9</b>	<b>9</b>

**f.**

	<b>H</b>	<b>T</b>	<b>0</b>
	4	2	3
	1	2	1
+	2	2	3
	<b>7</b>	<b>6</b>	<b>7</b>

**2. Arrange the following in columns and add.**

**a.**  $432 + 231 = \underline{663}$

	<b>H</b>	<b>T</b>	<b>0</b>
	4	3	2
+	2	3	1
	<b>6</b>	<b>6</b>	<b>3</b>

**d.**  $876 + 101 = \underline{977}$

	<b>H</b>	<b>T</b>	<b>0</b>
	8	7	6
+	1	0	1
	<b>9</b>	<b>7</b>	<b>7</b>

e.  $622 + 125 + 231 = \underline{978}$

	H	T	0
	6	2	2
	1	2	5
+	2	3	1
	9	7	8

### Exercise 2.2

1. Add the following.

a.

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

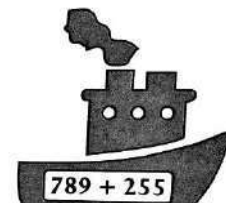
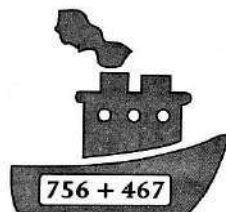
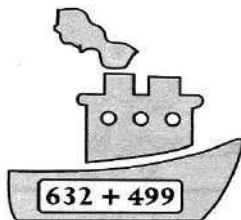
d.

	Th	H	T	0
		1	1	
		9	8	7
+		2	3	4
	1	2	2	1

f.

	Th	H	T	0
		5	8	3
+		5	1	2
	1	0	9	5

2. Tanmay wants to go on a cruise with his father. Help him choose a boat the sum of whose addends is an even number. (Textbook)



1,131	1,223	1,010	1,044
-------	-------	-------	-------

**Ans:** Tanmay can go in third and fourth boat on a cruise with his father.

### Exercise 2.3

#### 1. Add the following.

a.

	Th	H	T	0
	6	5	2	3
+	2	1	5	4
	8	6	7	7

c.

	Th	H	T	0
	5	0	5	0
+	2	2	4	1
	7	2	9	1

f.

	Th	H	T	0
	8	4	6	3
+	1	4	2	5
	9	8	8	8

#### 2. Add:

a.  $4106 + 1212$

	Th	H	T	0
	4	1	0	6
+	1	2	1	2
	5	3	1	8

b.  $7120 + 1269$

	Th	H	T	0
	7	1	2	0
+	1	2	6	9
	8	3	8	9

f.  $1000 + 8000$

	Th	H	T	0
	1	0	0	0
+	8	0	0	0
	9	0	0	0

## Exercise 2.4

### 1. Add the following.

a.

	Th	H	T	0
	1	1	1	
	4	5	6	7
+	2	5	5	4
	7	1	2	1

b.

	Th	H	T	0
	1	1	1	
	3	4	7	8
+	1	6	7	8
	5	1	5	6

f.

	Th	H	T	0
	1		1	
	5	8	0	9
+	2	2	2	1
	8	0	3	0

### 2. Add:

a.  $4267 + 1293$

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

d.  $1289 + 3281$

	Th	H	T	0
		1	1	
	1	2	8	9
+	3	2	8	1
	4	5	7	0

f.  $7299 + 1728$

	Th	H	T	0
	1	1	1	
	7	2	9	9
+	1	7	2	8
	9	0	2	7



### Exercise 2.5

#### 1. Fill in the blanks.

a.  $2456 + 9876 = \underline{9876} + 2456$

b.  $6543 + 0 = \underline{6543}$

c.  $4567 + \underline{8765} = 8765 + \underline{4567}$

d.  $5555 + 1 = \underline{5556}$

e.  $0 + \underline{4321} = 4321$

f.  $6342 + \underline{1} = 6343$

#### 2. Write 'True' or 'False'.

a.  $5678 + 0 = 5679$  False

b.  $999 + 1 = 998$  False

c.  $2345 + 5432 = 5432 + 2345$  True

d.  $7777 + 0 = 7777$  True

e.  $253 + 1 = 253$  False

f.  $5643 + 3452 = 3452 + 5644$  False

### Exercise 2.6

Read the problems carefully and solve the following.

1. There are 655 cherry trees and 454 plum trees in John's orchard. How many trees are there in total?

**Solution:**

Number of cherry trees = 655

Number of plum trees = 454

Number of trees in total =  $655 + 454$

	Th	H	T	0
		1		
		6	5	5
+		4	5	4
	1	1	0	9

Ans: There are 1109 trees are there in total.

**2. There were 545 students in kindergarten in the year 2000. In the next year 748 more students joined the school. How many students are there now in total?**

**Solution:**

Number of students in kindergarten in the year 2000 = 545

Number of more students in the next year = 748

Number of students in total =  $545 + 748$

	Th	H	T	0
		1	1	
		5	4	5
+		7	4	8
	1	3	9	3

Ans: There are 1393 students in total.

**3. There are 562 potatoes, 205 tomatoes and 313 onions in a vegetable shop. How many vegetables are there in the shop in total?**

**Solution:**

Number of potatoes = 562

Number of tomatoes = 205

Number of onions = 313

Number of total vegetables in total =  $562 + 205 + 313$

	Th	H	T	0
			1	
		5	6	2
		2	0	5
+		3	1	3
	1	0	8	0

Ans: There are total 1,080 vegetables in the shop.

**8. In a school library, there are 4500 English story books, 2527 Hindi story books and 2025 mental maths books. How many books are there in the library?**

**Solution:**

Number of English story books in a school library = 4500

Number of Hindi story books in a school library = 2527

Number of mental maths books in a school library = 2025

Number of books are there in the library =  $4500 + 2527 + 2025$

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

Ans: There are 9,052 books in the library.

### CBE QUESTIONS

1. Which number is 18 more than 62?

- (a) 80      (b) 70      (c) 56      (d) 44

2. Select the correct option.

84 is equal to?

- (a)  $40 + 80$       (b)  $8 + 4$       (c)  $4 + 80$       (d)  $8 + 40$

3. The next number in the series 105, 110, 115, 120, 125, 130

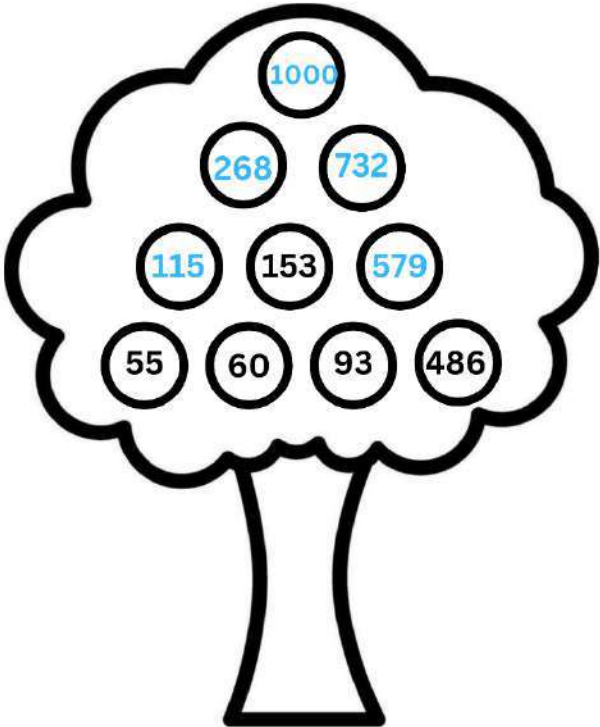
4. Which number should be written in the box below to make the number sentence correct?

$20 > \underline{\quad} + 10$

- (a) 5      (b) 10      (c) 15      (d) 20

5. Sum of the place values of two 5's in 3552 is 550.

SEA: Birdie's perfect home



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## CHAPTER- 3 SUBTRACTION

### ONLY EXPLANATION:

Subtraction means taking away a number from another number. It is represented by a symbol that looks like a small dash. It is called Minus (-).

### Exercise 3.1

#### 1. Subtract the following.

a.

	H	T	0
	2	8	2
-	1	6	0
	1	2	2

c. H.W.

	H	T	0
	9	9	8
-	8	0	5
	1	9	3

e.

	H	T	0
	4	6	8
-	2	6	0
	2	0	8

2. Match the following sums by colouring them alike. (TO BE DONE IN TEXTBOOK)

### Exercise 3.2

#### 1. Subtract the following.

a.

	H	T	0
	5	10	
	<del>6</del>	0	8
-	2	7	3
	3	3	5

c.

	H	T	0
	4	17	18
	<del>5</del>	<del>8</del>	<del>8</del>
-	1	9	9
	3	8	9

f.

	<b>H</b>	<b>T</b>	<b>O</b>
		7	15
	7	<del>8</del>	<del>5</del>
-	5	6	7
	<b>2</b>	<b>1</b>	<b>8</b>

**2. Subtract the following.**

a.  $446 - 337$

	<b>H</b>	<b>T</b>	<b>O</b>
		3	16
	4	<del>4</del>	<del>6</del>
-	3	3	7
	<b>1</b>	<b>0</b>	<b>9</b>

b.  $734 - 328$

	<b>H</b>	<b>T</b>	<b>O</b>
		2	14
	7	<del>3</del>	<del>4</del>
-	3	2	8
	<b>4</b>	<b>0</b>	<b>6</b>

e.  $641 - 418$

	<b>H</b>	<b>T</b>	<b>O</b>
		3	11
	6	<del>4</del>	<del>1</del>
-	4	1	8
	<b>2</b>	<b>2</b>	<b>3</b>

### Exercise 3.3

#### 1. Subtract the following.

a.

	Th	H	T	0
	7	2	3	8
-	4	2	1	4
	3	0	2	4

d.

	Th	H	T	0
	5	4	2	9
-	3	2	1	2
	2	2	1	7

e.

	Th	H	T	0
	3	8	6	9
-	1	2	1	8
	2	6	5	1

#### 2. Write the numbers in column and subtract.

a. 5475 - 2314

	Th	H	T	0
	5	4	7	5
-	2	3	1	4
	3	1	6	1

b. 6425 - 1414

	Th	H	T	0
	6	4	2	5
-	1	4	1	4
	5	0	1	1

f. 4674 - 2234

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

**DELHI PUBLIC SCHOOL, GANDHINAGAR**

**CLASS: 3**

**SUBJECT: MATHS**

**Academic Session 2024-25**

**CHAPTER- 1**

**NUMBERS**

**Exercise 1.1 (Notebook)**

**1. Write the given numerals in words.**

a. 4205 – Four thousand two hundred five

c. 6500 – Six thousand five hundred

e. 3112 **H.W.**

**2. Write the following numerals.**

a. Six thousand fifty-four- 6,054

d. Three thousand seventy- 3,070

f. **H.W.**

**3. Write the place value and the face value of the underlined digits.**

Number	Place value of the underlined digits	Face value of the underlined digit
503 <u>5</u>	5	5
1 <u>5</u> 00	0	0
<u>9</u> 930	9,000	9

**4. Find the sum of the place values of 3s in 3234.**

Ans:  $3000 + 30 = 3,030$

**Exercise 1.2**

**Fill in the blanks.**

1.  $3564 = 3000 + \underline{500} + \underline{60} + 4$

2.  $\underline{5}872 = 5000 + 800 + 2 + 70$

5.  $\underline{9}730 = 9 \text{ thousands} + 7 \text{ hundreds} + 3 \text{ tens}$

7.  $6820 = \underline{6} \text{ thousands} + \underline{2} \text{ tens} + \underline{8} \text{ hundreds} + \underline{0} \text{ ones}$

8.  $2691 = \underline{2} \times 1000 + \underline{6} \times 100 + \underline{9} \times 10 + \underline{1} \times 1$



### Exercise 1.3

1. Compare the following using  $>$ ,  $<$  or  $=$  sign.

a.  $209 \leq 3819$

c.  $1201 \equiv 1201$

d.  $7710 \leq 7727$

e.  $303 \leq 3030$

2. Arrange the following numbers in ascending order.

a. 3489      5689      5789      9989      3979

Ans: 3489    3979      5689      5789      9989

c. 3583      6682      6781      1189      8976

Ans: 1189    3583      6682      6781      8976

3. Arrange the following numbers in descending order.

a. 4532      6932      1546      7543

Ans: 7543    6932      4532      1546

d. 3097      2845      5628      7841

Ans: 7841    5628      3097      2845

4. Form the greatest and the smallest 4-digit numbers when repetition of digits is not allowed.

a. 1, 5, 8, 9

Ans: Greatest 4-digit number: 9,851

Smallest 4-digit number: 1,589

c. 2, 0, 6, 3

Ans: Greatest 4-digit number: 6,320

Smallest 4-digit number: 2,038

5. Form the greatest and the smallest 4-digit numbers when repetition of digits is allowed only once.

a. 9, 1, 3

Ans:

Greatest 4-digit number: 9,931

Smallest 4-digit number: 1,139

c. 8, 6, 2 **H.W.**

Greatest 4-digit number: 8,862

Smallest 4-digit number: 2,268

d. 3, 1, 0

Greatest 4-digit number: 3,310

Smallest 4-digit number: 1,003

### **Exercise 1.4**

1. Write the successor of the following numbers.

a. 2986

Ans:  $2986 + 1 = 2987$

b. 5129

Ans:  $5129 + 1 = 5130$

e. 1992 **H.W.**

2. Write the predecessor of the following numbers.

a. 1046

Ans:  $1046 - 1 = 1045$

d. 7000

Ans:  $7000 - 1 = 6999$

e. 9500 **H.W.**

3. Complete the given table.

Predecessor	Number	Successor
3245	<b><u>3246</u></b>	<b><u>3247</u></b>
<b><u>7830</u></b>	7831	<b><u>7832</u></b>
<b><u>6480</u></b>	<b><u>6481</u></b>	6482

### Exercise 1.5

1. Write down the even numbers between 1500 and 1520.

Ans: 1502, 1504, 1506, 1508, 1510, 1512, 1514, 1516, 1518.

2. Write down the odd numbers between 3170 and 3180.

Ans: 3171, 3173, 3175, 3177, 3179

3. Complete the series.

a. 5440    5442    5444    5446    5448    5450

d. 9000    9002    9004    9006    9008    9010

4. Sort the given numbers as odd or even.

6734, 5783, 9921, 3310, 5558, 1006, 6335, 2244, 9867, 4001

Odd Numbers	Even numbers
5783	6734
9921	3310
6335	5558
9867	1006
4001	2244

### Exercise 1.6

1. Round off the following numbers to the nearest 10s.

a. 34

Ans: 34

Here,  $4 < 5$

So, 34 is rounded down to 30.

b. 75

Ans: 75

Here,  $5 = 5$

So, 75 is rounded up to 80.

d. 916 **H.W.**

Ans: 916

Here,  $6 > 5$

So, 916 is rounded up to 920.

2. Round off the following numbers to the nearest 100s.

a. 236

Ans: 236

Here,  $3 < 5$

So, 236 is rounded down to 200.

c. 2103

Ans: 2103

Here,  $0 < 5$

So, 2103 is rounded down to 2100.

d. 1758

Ans: 1758

Here,  $5 = 5$

So, 1758 is rounded up to 1800.

### **Reflection:**

I have learnt:

- to find out place value and face value of 4-digit numbers.
- to find out the successor and predecessor of the given number.
- Round off numbers to the nearest 10s and 100s.

### **Competency based Questions:**

1) Seventy-nine can be written as

(a)  $7 + 9$

(b)  $7 + 90$

(c)  $70 + 90$

**(d)  $9 + 70$**

2) The number which comes just after 5 TENS is

(a) 16

(b) 49

**(c) 51**

(d) 60

3) Ann has the following number cards. Using these two cards, she can make a number between:

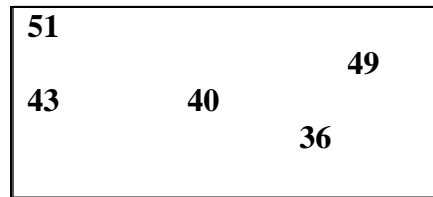


- (a) 20 and 25      **(b) 25 and 30**      (c) 50 and 60      (d) 70 and 80

4) 3 equal sized boxes are completely filled with fruits - Box 1 with grapes, Box 2 with apples and Box 3 with melons. Which box has the greatest number of fruits?

- (a) Box 1**      b) Box 2      (c) Box 3      (d) All have the same number

5. Look at the numbers in this box. Which of the following is true about the numbers in the box?



- (a) They are all greater than 40      (b) They are all between 30 and 50  
**(c) They are all between 35 and 55**      (d) They are all less than 50

**LINK FOR MATHS CHAPTER 1 NUMBERS**

<https://forms.gle/EMpxhTBfHuRfThK47>