NEW BHARATH MATRICULATION HIGHER SECONDARY SCHOOL, THIRUVARUR

CLASS IV   MATHS   TERM I

UNIT 1: GEOMETRY

PROPERTIES OF 2- D SHAPED OBJECTS.

SQUARE:

- Four equal sides
- Four equal angles (90˚)
- Four axes of symmetry.

RECTANGLE:

- Two sets of two equal sides
- Four equal angles (90˚)
- Two axes of symmetry.

TRIANGLE:

- A triangle is a three – sided polygon (2d- shape)which has three edges and three vertices, the sum of all the three angles of triangle is equal to 180˚

EXERCISE: 1.1a
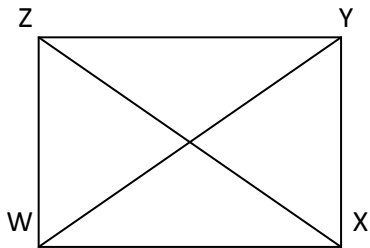
Fill in the blanks:

1. All closed four sided figures are called Quadrilateral.

2. A Square has four equal sides and equal diagonals.

3. The opposite sides of a Rectangle are equal.

4. A Circle has no sides.

5. Diagonals are equal in Square and Rectangle.

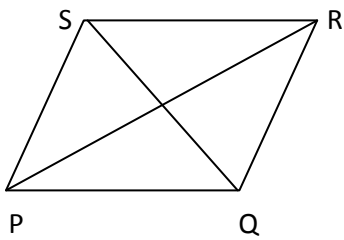Write the name of the sides and diagonals:
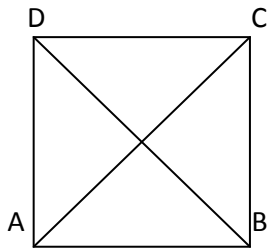
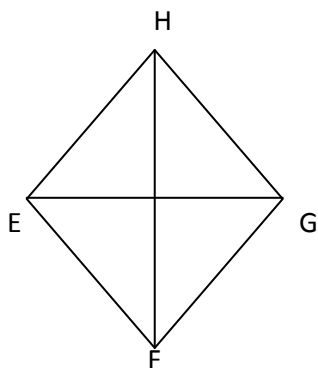SIDES: AB, BC, CD, DA

DIAGONALS: AC, BD

SIDES: XY, YZ, ZW, WX

DIAGONALS: XZ, YW

SIDES: PQ, QR, RS, PS

DIAGONALS: PR, QS

SIDES: FG, GH, HE, EF

DIAGONALS : FH, EG

**Identifying center, radius, and diameter of a circle:**

Circle is perfectly round in shape. It has no sides and no diagonals. 'o' is the centre of the circle, The distance from the center to each of these points A, B, C, D, E is the radius of the circle. Radius is equal in length.

- ✓ All the radii are equal in length in a circle.
- ✓ A line segment AB passes through the centre of the circle O.
- ✓ AB is the diameter of the circle.
- ✓ The longest chord of a circle is the diameter the radius is always half of the diameter.
- ✓ Diameter is the longest chord.

EXERCISE: 1.1b

Construct circles of the following radii using a compass.

A) 6cm
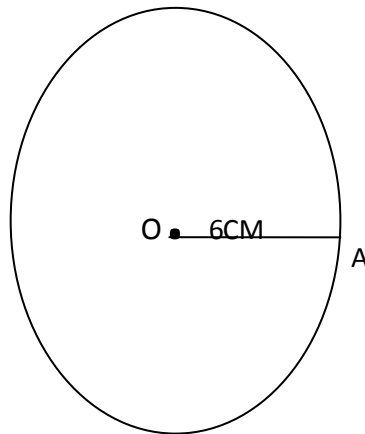
EXERCISE: 1.1c

A. Fill in the blanks:

1. All the radii of a circle are <u>Equal.</u>

2. The <u>diameter</u> is the longest chord of a circle.

3. A line segment joining any point on the circle to its centre is called the <u>diameter</u> of the circle.

4. A line segment with its end points on the circle is called a <u>diameter</u>.

5. Twice the radius is <u>diameter.</u>

B. Find the diameter of the circle:

1. Radius= 10 cm

      Given R = 10 cm

      Diameter= 2r units

          = 2(10) cm

          = 20 cm

2. Radius= 8 cm

      Given R= 8 cm

      Diameter= 2r units

          = 2(8) cm

          =16 cm

3. Radius= 6 cm

      Given R= 6 cm

      Diameter = 2r units

          = 2(6) cm

          = 12 cm

C. Find the radius of the circle:

1. Diameter= 24

$$r = \frac{d}{2} \text{ units}$$

$$r = \frac{24}{2} \text{ cm}$$

r= 12 cm.

2. Diameter=30

$$r = \frac{d}{2} \text{ units}$$

$$r = \frac{30}{2} \text{ cm}$$

r= 15 cm.

3. Diameter=76

$$r = \frac{d}{2} \text{ units}$$
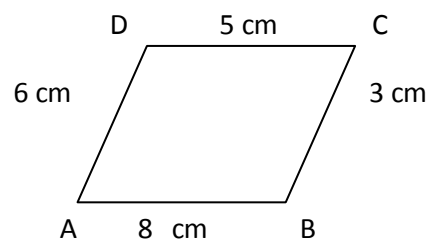
$$r = \frac{76}{2} \text{ cm}$$

r= 38 cm

Identify the sides and find perimeter of a quadrilateral:

PERIMETER:

The perimeter is the sum of all sides of a closed figure.

D. Find the perimeter of the following figures:

1.

Perimeter = AB+ BC+CD+DA

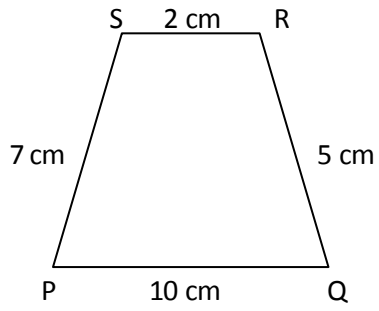= 8 cm + 3 cm + 5 cm+ 6 cm

= 22 cm

2.

Perimeter = PQ + QR + RS + SP

= 10 cm + 5 cm + 2 cm+ 7 cm

= 24cm

3.
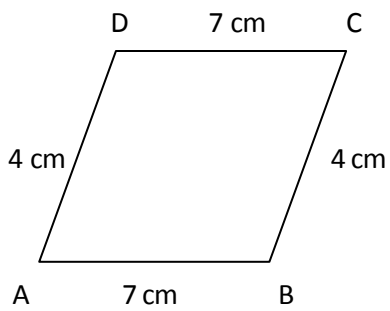
Perimeter = AB+ BC+CD+DA

= 7 cm + 4 cm + 7 cm+ 4 cm

= 22 cm

4.
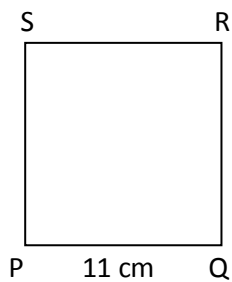
Perimeter of a square   = 11 cm + 11 cm + 11 cm + 11 cm

= 44 cm

5.

H ——— 10 cm ——— G

5 cm

E   F
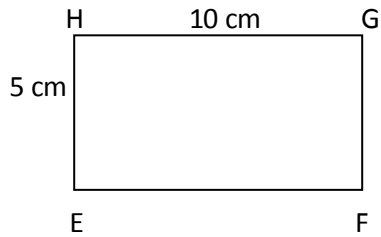
Perimeter of a rectangle = 10 cm + 5 cm + 10 cm + 5 cm

= 30 cm

E. ANSWER THE FOLLOWING QUESTIONS:

1. A side of a square – shaped sand box in Gandhi park measures 30 cm. Determine of the sandbox.

Solution:

Perimeter of a square = 30 cm + 30 cm + 30 cm + 30 cm

=120 cm

D   C

30 cm

A   B
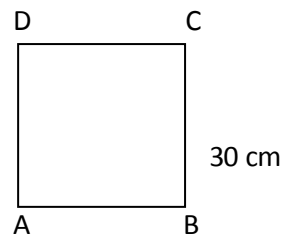
2. Find the perimeter of a rectangle, whose sides are 12 cm and 8 cm

Solution:

Perimeter of a rectangle = 2(l + b) units

= 2(12 + 8) cm

= 2(20) cm

= 40 cm

D ——————— C

8 cm

A   12 cm   B
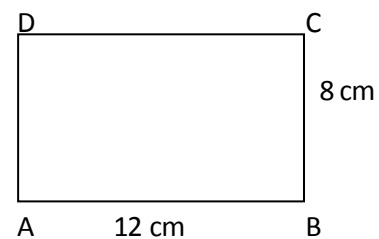
3. Find the perimeter of the triangle, whose sides are 13 cm, 5 cm and 14 cm

Solution:

Perimeter of a triangle = AB + BC + CA

=14 cm + 5 cm + 13 cm

=32 cm

A

13 cm   14 cm

B   5 cm   C
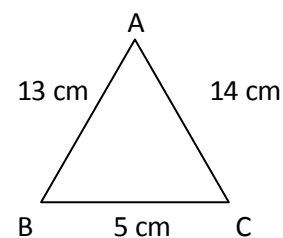
4. The adjacent sides of a parallelogram are 6 cm and 7 cm. What is the perimeter of the parallelogram?

Solution:

   Perimeter of parallel gram = 2 (l + b) units

               =2(7 cm + 6 cm)

               =2(13) cm

               =26 cm
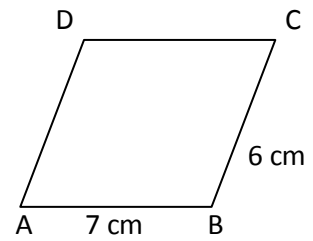
5. The sides of a trapezoid measures 8 cm, 7 cm, 4cm and 5 cm respectively, what is the perimeter of the trapezoid?

Solution:

 Perimeter of trapezoid = a + b + c + d

              = AB + BC + CD + DA

              = 8 cm + 5 cm + 7 cm + 4 cm

              =24 cm
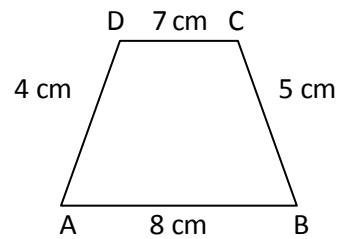
PROPERTIES OF 3-D OBJECTS:

CUBE:

A cube has 6 plane faces, 12 edges and 8 vertices. All the six faces are equal.

Ex: Dice, ice cubes, building blocks, Rubik's
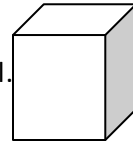
CUBOID:

A Cuboid has 6 plane faces. 12 edges and 6 vertices. Its opposite faces are equal.

Ex: Match box, bricks, eraser, book, tooth paste box.
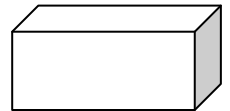
SPHERE:

A sphere has only one curved surface. It has no vertices and edges

Ex: Shot put, ball, globe, laddu

CONE:

A cone has one plane face and one curved surface. It has one vertex.

Ex: Cone ice cream, jokers cap
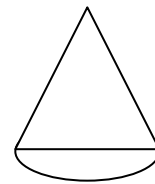
CYLINDER:

A cylinder has 2 plane faces and 1 curved surface.

It has no edges and vertices.

Ex: Straw, gas cylinder, pipe
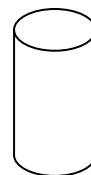
Choose the correct answer:

1. A cuboid has <u>12</u> edges.

2. The shape of a dice is like a <u>cube</u>

3. A <u>cylinder</u> has a curved surface and two plane faces.

4. I have one vertex and one plane face, I am a <u>cone</u>

5. A cube has <u>8</u> vertices

UNIT 2: NUMBERS

EXERCISE: 2.1

A. Write the following number in words:

   I. 1,006- One thousand six
  II. 6,327-Six thousand three hundred and twenty seven
 III. 9,097-Nine thousand ninety seven
  IV. 10,000-Ten thousand
   V. 8,906-Eight thousand nine hundred and six

B. Write the numeral for each of the following:

1. Seven thousand and sixty four- <u>7064</u>

2. Nine thousand three hundred and forty- <u>9,340</u>

3. Five thousand six hundred and seventy three - <u>5,673</u>

4. Ten thousand- <u>10,000</u>

5. Four thousand three hundred and six - <u>4,306</u>

C. ANSWER THE FOLLOWING QUESTIONS:

1. Ramu went to a bank to deposit RS. 7,500. In the deposit form, he has to fill up the amount in words. Could you please help him?

SOLUTION:

Amount= ₹7,500

In words, seven thousand five hundred

2. Find the sum of the greatest two digit and the greatest three digit numbers. Write the numbers names of that sum.

SOLUTION:

Greatest 2 digit number = 99

Greatest 3 digit number = 999

In words,

Ninety nine

Nine hundred and ninety nine

EXERCISE: 2.1 a

1. Encircle the odd numbers from the following:

9001 , 8002, 7603 6542, 4875 , 3882, 3217

2. Encircle the even numbers from the following

6231 5920 , 4812 , 2121, 1234 , 9528 , 3946

3. Choose the even numbers and write the names

NUMBER	NUMBER NAME
4706	Four thousand seven hundred and six
3848	Three thousand eight hundred forty eight

4. Choose the odd numbers and write the names.

NUMBER	NUMBER NAME
4703	Four thousand seven hundred and three
2003	Two thousand and three
4017	Four thousand and seventeen
2001	Two thousand and one

EXERCISE: 2.1 b

1. Find the face value and place value of the coloured digit in the given number.

a) 1 3 7 9

Place value   **Face value**

1   3   7   9

9×1=9   9

7 ×10=70   7

3×100=300   3

1×1000 =1000   1

b) 9   8   7   6

Place value   **Face value**

9   8   7   6

6×1=6   6

7 ×10=70   7

8×100=800   8

9×1000 =9000   9

c) 5   1   3   6

Place value   **Face value**

5   1   3   6

6×1=6   6

3 ×10=30   3

1×100=100   1

5×1000 =5000   5
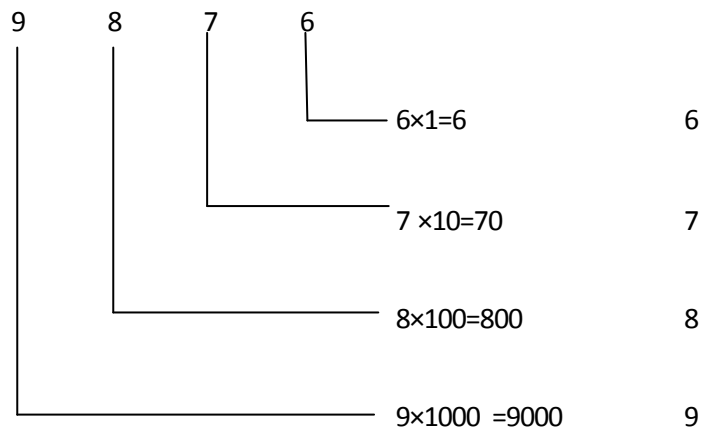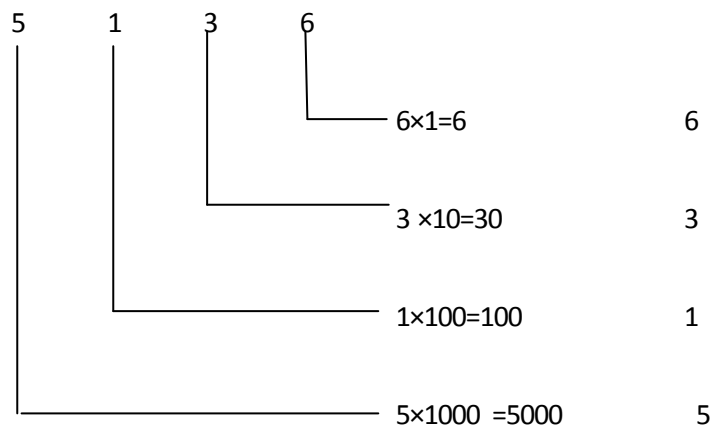
d) 8   9   6   5

Place value   **Face value**

8   9   6   5

5×1=5   5

6 ×10=60   6

9×100=900   9

8×1000 =8000   8

e) 2   0   1   0

Place value   **Face value**

2   0   1   0

0×1=0   0

1 ×10=10   1

0×100=0   0

2×1000 =2000   2

f) 4   0   3   8

Place value   **Face value**

4   0   3   8

8×1=8   8

3×10=30   3

0×100=0   0

4×1000 =4000   4
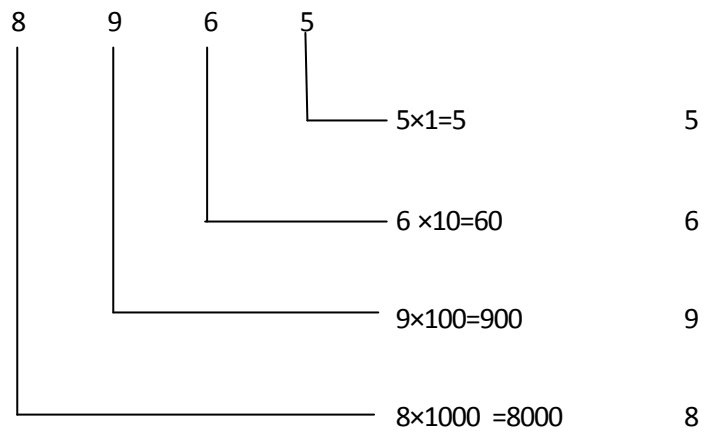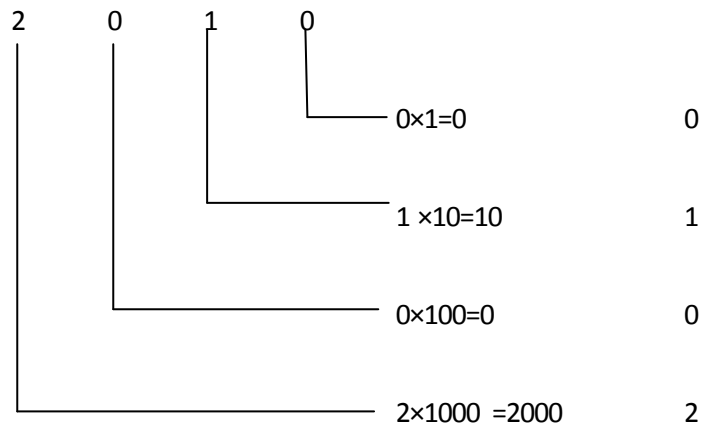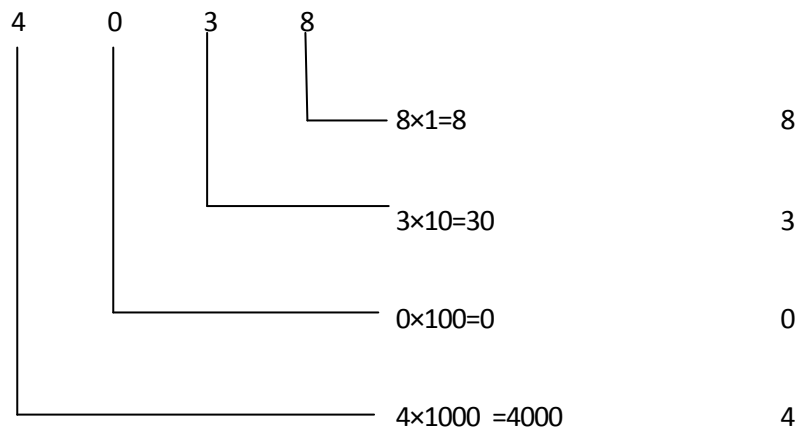
2. Complete the table with the numbers in expand on short form.

a) 6785   -   6000+700+80+5

b) 4297   -   4000+200+90+7

c) 3327   -   3000+300+20+7

d) 9999   -   9000+900+90+9

e) 5071   -   5000+70+1

f) 2934   -   2000+900+30+4

3. Circle the correct answer:

a) 5 thousands + 3 hundreds + 2 ones - <u>5302</u>

b) The place value of 5 in 3758 – <u>50</u>

c) Three thousand six hundred and sixty - <u>3660</u>

d) 4000+ 600+ 90 – <u>4690</u>

COMPARING NUMBERS:

Ascending order:

Ascending order is arranging numbers from smallest to biggest.

Descending order:

Descending order means arranging number from biggest to smallest.

EXERCISE: 2.2 a

1. Write the following numbers in ascending order:

a)   7631,   9987,   7634,   5436,   8918

        5436,   7631,   7634,   8918,   9987

b)   4096,   3096,   3099,   2473,   3172

        2473,   3096,   3099,   3172,   4096

c)   5201,   5627,   4325,   9999,   9801

        4325,   5201,   5627,   9801,   9999,

2. Write the following numbers in descending order:

a)   3435,   3670,   139,   3267,   6544

        6544,   3670,   3435,   3267,   139

b)   2785,   3605,   2782,   236,   9801

        9801,   3605,   2785,   2782,   236,

c)   6998,   6987,   6898,   7801,   8979

        8979,   7801,   6998,   6987,   6898

EXERCISE: 2.2 b

1. Form the greatest and smallest numbers using the given digits only one.

Digits	greatest number	smallest number
a) 1, 4, 3, 7	7 4 3 1	1 3 4 7
b) 5, 0, 9, 3	9 5 3 0	3 0 5 9
c) 6, 7, 1, 5	7 6 5 1	1 5 6 7
d) 3, 2, 0, 9	9 3 2 0	2 0 3 9
e) 7, 3, 2, 8	8 7 2 0	2 0 7 8
f) 4, 6, 0, 2	4 6 2 0	2 0 4 6
g) 9, 1, 4, 0	9 4 1 0	1 0 4 9

2. Circle ◯ the smallest number and tick ✓ the greatest number:

a) 2715   2175   2517   ⟨2157⟩   2275

b) 6238   ⟨2386⟩   3862   8623   9378

c) 9345   9646   3408   ⟨1425⟩   2000

d) 5931   ⟨1370⟩   4000   2000   3000

e) 6000   7000   5000   ⟨4000⟩   9000

f) ⟨2468⟩   4279   5090   7906   6270

g) 7692   8296   ⟨3241⟩   9276   4291

EXERCISE: 2.3

1. FILL IN THE BLANKS:

   i.   4634 + 0 = 4634

  ii.   2134 + 1 = 2135

 iii.   5349 + 0 = 5349

 iv.   1435 + 1923= 1923 + 1435

  v.   3457 + 1 = 3458

2. ADD:

	Th	H	T	O			Th	H	T	O
i)	3	2	5	4	ii)	2	1	3	5
	1	4	2	4		3	3	4	2
	4	6	7	8		5	4	7	7

	Th	H	T	O			Th	H	T	O
iii)	3	7	6	2	iv)	1	4	3	3
	3	1	3	7		4	5	5	2
	6	8	9	9		5	9	8	5

3. ADD: 2713 + 104 + 1172 + 6010

	2	7	1	3
	0	1	0	4
	1	1	7	2
+	6	0	1	0
	9	9	9	9

4. A man visited a furniture shop. He bought a bed for Rs. 2,100 a dining table for Rs. 3, 500 and six chairs for Rs. 4, 200. How much money did he pay to the shopkeeper?

Solution:

Cost of bed	= Rs. 2100
Cost of dining table	=Rs. 3500
Cost of 6 chairs	=Rs. 4200
	Rs. 9800

5. Create word problem for the additional facts given below.

A) 3094 + 7923 = 11,017

Prabha bought a computer for Rs. 3094 and a TV Rs. 7923. Find the total cost of items?

B) 8309 = 2309 + ☐

A man has Rs. 8309, he bought furniture for Rs.2309. Find the remaining cost?

7. Fill in the circles using 1400, 1500, 1600, 1700, 1800 and 1900

```
                    1900
                     /\
                    /  \
             1600  5000  1400
                  /        \
                 /          \
          1500————— 1000 ————1700
```
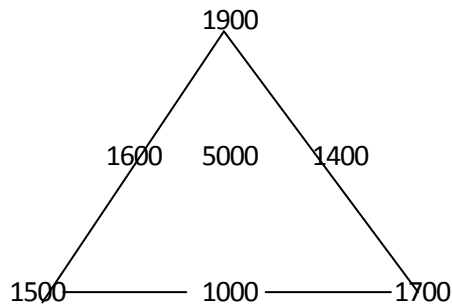
8. Fill in the box with a number.

```
              ┌──────┐
              │ 1732 │
              └──────┘
          ┌──────┐  /
          │ 2051 │<
          └──────┘  \
                  ┌──────┐
                  │ 319  │
                  └──────┘
```
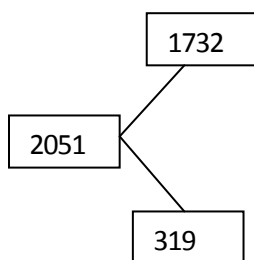
9. Write the missing numbers:

1)

	Th	H	T	O
	2	1	7	3
	4	3	3	4
	1	9	5	7
	8	3	7	4

2)

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

EXERCISE 2.3 a

1. Write the following numbers in vertical order and odd.

a) 216, 3422, 4019, 497

0	2	1	6
3	4	2	2
4	0	1	9
0	4	9	7
8	1	5	4

b) 1002, 2347, 1976, 2005, 2007

1	0	0	2
2	3	4	7
1	9	7	6
2	0	0	5
2	0	0	7
9	3	3	7

C) 1978, 1965, 2704, 473

1	9	7	8
1	9	6	5
2	7	0	4
0	4	7	3
7	1	2	0

2. Add the total amount of the following 4 piggy banks.

Rs. 0	9	7	8
Rs. 3	7	9	6
Rs. 2	3	7	4
Rs. 1	9	5	7
Rs. 9	1	0	5

3. The sum of 1215 + 2367 + 1673 + 3120 = <u>8375</u>

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

4. 2076 + 276 + 2974 + 1751 = <u>7077</u>

2	0	7	6
0	2	7	6
2	9	7	4
1	7	5	1
7	0	7	7

5. What is the sum of five hundred and fifteen tens?   50

6. The sum of the greatest 3- digit number and the smallest 4- digit number is <u>1999</u>

7. 9999 + 1 = <u>1000</u>

8. In a village the number of males is 4154 and the number of females is 4221. Find the total population in the village?

Solution:

Number of males	=	4	1	5	4
Number of females	=	4	2	2	1
		8	3	7	5

9. A refrigerator costs Rs. 6543 and a DVD player costs Rs. 3412. What is the total cost?

Solution:

Cost of refrigerator	=	Rs.	6	5	4	3
Cost of DVD player	=	Rs.	3	4	1	2
		Rs.	9	9	5	5

EXERCISE: 2.3 b

1)		9	7	6	4
	(-)	3	4	2	3
		6	3	4	1

2)		7	9	8	6
	(-)	4	5	2	4
		3	4	6	2

3)		4	7	8	5
	(-)	2	4	6	2
		2	3	2	3

EXERCISE: 2. 3c

A. Subtract:

1.
T h	H	T	O
	3	13	15
3	4	4̸	5̸
(-) 1	3	4	8
2	0	9	7

2.
T h	H	T	O
		5	15
4	9	6̸	5̸
(-) 2	4	4	6
2	5	1	9

3.
T h	H	T	O
	4	16	16
6	5̸	7̸	6̸
(-) 3	3	9	7
3	1	7	3

4.
T h	H	T	O
7	18	14	13
8̸	9̸	5̸	3̸
(-) 5	9	6	4
2	9	8	9

3. Find the difference between given numbers.

a) 4352 and 5020
4	9	11	10
5	0̸	2̸	0̸
(-) 4	3	5	2
0	6	6	8

b) 1438 and 3370
2	12	6	10
3̸	3̸	7̸	0̸
(-) 1	4	3	8
1	8	3	2

c) 2526 and 8431
7	13	12	11
8̸	4̸	3̸	1̸
(-) 2	5	2	6
5	9	0	5

d) 3361 and 9000
8	9	9	10
9̸	0̸	0̸	0̸
(-) 3	3	6	1
5	6	3	9

C. Answer the following questions:

1. The sum of two numbers is 7036, one number is 3168. Find the other number.

```
        7    0    3    6
(-) 3    1    6    8
    _____
    3    8    6    8
    _____
```

2. A man had Rs. 9200 in the bank. He withdrew Rs. 2756. How much money does he have in the bank now?

```
A man had      Rs. 9    2    0    0
He withdrew amount  Rs. 2    7    5    6
                    _____
                    6    4    4    4
                    _____
```

D. Create the subtraction story problem for the details given below

a) 1997 – 1968

      A man born in a year 1997, and his father born in 1968. What is the difference between the birth years?

b) Ans:

      Total number of mangoes are 7000 and number of mangoes in one three are 3200. Find the number of mangoes in another tree.
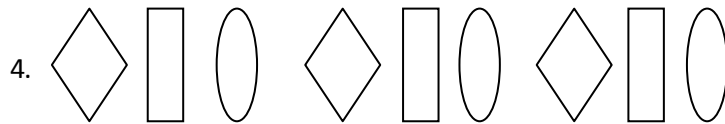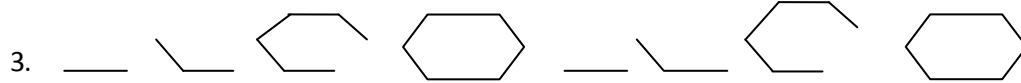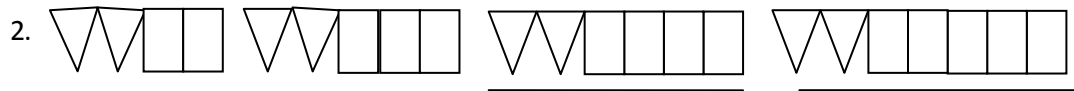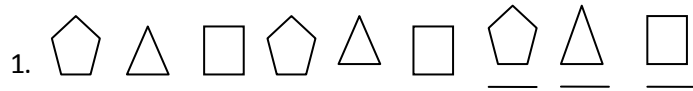
c) Find the missing one 7500 - _____ = 3880

UNIT 3: PATTERN

EXERCISE : 3.1

FILL IN THE SHAPES:

1.

2.

3.

4.

EXERCISE: 3.2

1. Circle the multiples of 9 (by using casting outline)

a) 9443

$$9443 \quad = \quad 4+4+3$$

$$= \quad 11$$

It's not a multiple of 9

b) 1008

$$1008 \quad = \quad 1+0+0+8$$

$$= \quad 9$$

It's a multiple of 9

c) 2468

$$2468 \quad = \quad 2+4+6+8$$

$$= \quad 20$$

$$= \quad 2+0$$

$$= \quad 2$$

It's not a multiple of 9

d) 23769

     23769   =   2 + 3 + 7 + 6 + 8   =   1 + 8 = 9

     It's a multiple of 9

e) 13476

     13476   =   1 + 3 + 4 + 7 + 6

             =   21

             =   2 + 1 = 3 (No)

2. Circle the correct addition fact (by using casting out nine)

a) 4355 + 5369 = 9724

    4̶3̶5̶5̶ + 5̶3̶6̶9̶ = 9̶7̶2̶4̶

    3 + 5 + 5 = 4

    13 = 4

     4 = 4

b) 7632 + 2213 = 9845

    7̶6̶3̶2̶ + 2213 = 9̶8̶4̶5̶

    7 + 2 + 2 + 2 + 1 + 3 = 8

    9 + 8 = 8

    17 = 8

     8 = 8

3. Circle the correct subtraction fact (by using casting out nine)

a) 7420 − 3625 = 3795

   7420 − 3̶6̶25 = 37̶95

     13 − 7 = 15

       6 = 6

c) 6732 − 4361 = 2371

   6732 − 4̶3̶6̶1 = 2371

    18 − 5 = 13 = 13

      4 = 4

EXERCISE: 3.2b

1. Circle the correct multiplication fact (by using casting out method)

C) 132 × 43 = 5676

$\qquad$ 132 × 43 = 5676

$\qquad$ 1 + 3 + 2 x 4 + 3 = 5 + 6 + 7 + 6

$\qquad\qquad$ 6 × 7   = 24

$\qquad\qquad$ 42   = 42

$\qquad\qquad\qquad$ 6 = 6

2. Circle the correct division fact (by using casting out nine methods)

a) 729 ÷ 4 = 182	b) 1580 ÷ 20 = 78	c) 7785 ÷ 9 = 865
729 ÷ 4 = 182	5 ÷ 2 = 7 + 8	7 + 7 + 8 + 5 ÷ 0 = 8 + 6 +5
8 ÷ 4 = 2	5 ÷ 2 = 15	27 ÷ 0 = 19
8 = 2 × 4	5= 15 × 2	27 = 19 × 0
8 = 8	5 = 30	9 $\neq$ 0
	5 $\neq$ 3	

Complete the following:

a) 54 ÷ 9 = 6

b) 540 ÷ 9 = 60

c) 5400 ÷ 9 = 600

d) 9 ÷ 9 = 6000

EXERCISE: 3.3

A. Fill in the blanks:

1. 90, 180, 270, <u>360, 450, 540</u>

2. Z90, A81, Y72, B63, <u>X54, C45, W36</u>

B. Circle the multiplication of 9.

25, (27) 35, (36) 45, 46, (54) , 55

C. Complete the following sequence

1. 125, 150, 175, <u>200, 225, 250</u>

2. 100, 400, 700, <u>1000, 1300, 1600</u>

3. A100, C300, E50, <u>G250, I0, K200</u>

4. 200, 400, 600, <u>800, 1000, 1200</u>

D. Complete the following sequence

1. 9×6 = 54

 9×66 = 594

 9×666 = 5994

 9×6666 = 59994

 9×666666 = 5999994

2. 9×11 = 99

 9×333 = 2997

 9×444 = 3996

 9×5555 = 4995

 9×666 = 5994

E. Answer the following questions:

1.

Period 1	Period 2	Break	Period 3	Period 4	Break	Period 5	Period 6
9:00	10:00	11:00					

Ans:

Period 1	Period 2	Break	Period 3	Period 4	Break	Period 5	Period 6
9:00	10:00	11:00	11:20	12:20	1:20	1:40	2:40

2. Ans:

Red	Yellow / orange	Green	Red	Green
7:30 am	7.32 am	7.33 am	7.35 am	7.37 am

F. Create a magic square by using multiples of 10, 20, 30, 40, 50, 60, 70, 80 and 90

20	90	40
70	50	3o
60	10	80

150

150

Ans:

40	180	80
40	100	60
120	20	160

300

300

60	180	80
40	100	60
120	20	160

400

450

40	180	80
40	100	60
120	20	160

600

600

UNIT 4: MEASUREMENTS

1m = 100 cm, 1 cm = $\dfrac{1}{100}$ m

1km= 100 m

1l = 1000 ml.

EXERCISE: 4.1

Convert into centimetre:

1. 3m = (3×100) cm

   = 300 cm

2. 37m = (37×100) cm

   = 3700 cm

3. 5 m 9 cm = (5×100) cm + 9 cm

   = 500 cm + 9 cm

   = 509 cm

4. 7 m 35 cm = (7×100) cm + 35 cm

   = 700 cm + 35 cm

   = 735 cm

Convert into meter:

1. 600 cm

  600 cm $= 600 \times \dfrac{1}{100}$ m

    $= 6$ m

2. 3600 cm

 3600 cm $= 36\cancel{00} \times \dfrac{1}{100}$ m

    $= 36$ m

3. 647 cm

  647cm $= 647 \times \dfrac{1}{100}$ m

    $= (6.47)$ m

    $= 6$m 47 cm

4. 304 cm

  304 cm $= 304 \times \dfrac{1}{100}$ m

    $= 3$m 4 cm

EXERCISE 4.2

Add the following:

1.

m	cm
41	29
26	75
68	04

41 m 29 cm + 26 m 75 cm = 68 m 04 cm

2.	m	cm
	70	23
	31	45
	101	68

70 m 23 cm + 31 m 45 cm = 101 m 68 cm

3.	m	cm
	35	08
	29	26
	64	34

35 m 08 cm + 29 m 26cm = 64 m 34 cm

4.	m	cm
	53	45
	34	68
	88	13

53 m 45 cm +34 m 68 cm = 88 m 13 cm

5.	m	cm
	60	45
	24	75
	85	20

60 m 45 cm + 24 m 75 cm = 85 m 20 cm

EXERCISE: 4. 3

Subtract the following:

1.	m	cm
	93	25
(-)	20	12
	73	13

93 m 25cm - 20 m 12 cm = 73 m 13 cm

2.	m	cm
	38	90
(-)	26	60
	12	30

38 m 90cm - 26 m 60 cm = 12 m 30 cm

3.	m	cm
	75	22
(-)	56	35
	18	37

75m 22cm - 56 m 35cm =18 m 37 cm

4.	m	cm
	27	81
(-)	16	94
	10	87

27 m 81 cm - 16 m 94 cm = 10 m 87 cm

5.	m	cm
	38	90
(-)	26	60
	12	30

38 m 90cm - 26 m 60 cm = 12 m 30 cm

6.	m	cm
	75	32
(-)	56	35
	18	87

75 m 32cm - 56 m 35 cm = 18 m 87 cm

EXERCISE: 4.4

1. Deenu bought 15m 43 cm of shirt material and 23m 94 cm of trouser material. Find out total

   Material bought by him.

   Solution:

			m	cm
Deenu bought shirt material	=		15	43
Deenu bought trouser material	=		23	94
			39	37

   Total length of material = 39 m 37 cm

2. The fisher man bought 2 nets. The length of first and second nets is 23 m 43 cm and 25 m 63 cm.

   What is the total length of nets?

   Solution:

		m	cm
First net length	=	23	43
Second net length	=	25	63
		49	06

   Total length of the net   =49 m 06 cm

3. Agathiya bought 70 m 42 cm of wire to fence his garden. He used only 43m 51 cm of wire. Find

   the length of the remaining wire.

   Solution:

		m	cm
Total length of wire	=	70	42
Agathiya used	=	43	51
Remaining length of wire	=	26	91

4. A shop keeper sold 37 m 69 cm cloth out of 93 m 75 cm in stock. How much stock is left with him?

Solution:

		m	cm
Total stock of cloth	=	93	75
Second cloth length	=	37	69
		56	06
Remaining cloth	=	56m 06 cm	

5. Solution:

			m
Length of orange fabric	=		125
Length of yellow fabric	=	(+)	50
Total	=		175
Used length of both red and yellow	=	(-)	25
	=		150

Remaining length of both = 150 m

6. Solution:

		m	cm
Babu's height	=	1	30
Velu's height	=	1	15
		0	15

Babu is taller than velu by = 15 cm

4.5. ESTIMATE

Look at the map and complete the following:
1. 39 km
2. 30 km
3. 46b km
4. 35 km
5. Fruit shop
6. Market
7. 20 km

EXERCISE: 4.5

1. Convert into cm.

a) 5 m

    1m = 100 cm

    5m = (5×100) cm

      = 500 m

b) 7 m

    7m = (7×100) cm

      = 700 cm

c) 9 m

    9m = (9×100) cm

      = 900 cm

d) 16 m

    16 m= (16×100) cm

      = 1600 cm

2. Convert into m.

a) 6000 cm

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

    $6000 \text{ cm} = 6000 \times \frac{1}{100}\text{m}$

    = 60 m

b) 4000 cm

    $4000 \text{ cm}= 4000 \times \frac{1}{100}\text{m}$

    = 40 m

c) 13000 cm

    $13000 \text{ cm} = 13000 \times \frac{1}{100}\text{m}$

    = 130 cm

d) 17000 cm

    $17000 \text{ cm} = 17000 \times \frac{1}{100}\text{m}$

    = 170 cm

3. Add:

a)	m	cm	b)	m	cm	c)	m	cm
	4	75		25	53		48	72
	3	18		18	24		14	34
	7	93		43	77		63	06

4m 75cm + 3m 18cm = 7m 93cm   25 m 53cm + 18m 24cm = 43m 77cm   48m 72cm + 14m 34cm=63m 06cm

4. Subtraction:

a) m	cm		b) m	cm		c) m	cm
9	28		63	47		96	32
(-) 3	14		(-) 36	24		(-) 20	48
6	14		27	23		75	84

9 m 28 cm – 3 m 14 cm= 6m 14 cm   63 m 47 cm – 36m 24 cm= 27 m 23 cm   96 m 32 cm + 20 m 48 cm = 75 m 84 cm

5. Raju used 13 m 25 cm ribbon for making his project. If he had bought 20 m of ribbon. How much ribbon is left with him?

   Solution:

		m	cm
Total length of ribbon=		20	100
Agathiya used	=	13	25
		6	75

Remaining length of ribbon= 6 m 75 cm

6. Solution:

	m	cm
Distance b/w bus stand to school =	81	40
Distance b/w school to temple =	20	10
	101	50

Distance b/w bus stand to temple = 101 m 50 cm

7. Solution:

   Length of word   = 4000 mm

   It's divided into two equal parts   = 2000+2000

   Length of each piece   = 2000 mm

8. Solution:

   Total length of cloth= 1m 100 cm

   She is not able to stitch all curtains, there is no cloth left behind.

UNIT 5 TIME

EXERCISE 5.1

A. Answer the following questions:

1. Which is the first day of the week?

    Sunday

2. How many days do you come to school in a week what are they?

    Six days: Monday, Tuesday, Wednesday, Thursday, Friday and Saturday.

3. How many days are holidays in a week?

    Only one day Sunday

4. Which is the third day of the week?

    Tuesday

B. Unscramble the days are given below. Write the days of the week in order.

1. THURSDAY

2. FRIDAY

3. SUNDAY

4. MONDAY

5. TUESDAY

6. WEDNESDAY

7. SATURDAY

BIRTHDAY CALENDER

Name	ordinal day	ordinal month	year
Monisha	10	03	1985
Rahul	20	04	1990
Muthu	25	08	1995
Ram	30	10	2000

a) Who is the oldest member of your family?

Monisha

b) Who is the youngest?

Ram

c) What is the age of difference between them?

15 years

d) When will you celebrate your 12th birthday?

2012

EXERCISE: 5.2

A. State True/ False

1. January is the first month of the year. <u>True</u>

2. March is in between September and November. <u>False</u>

3. The last month of year is July. <u>False</u>

4. February has 30 days. <u>False</u>

5. April is the successive month of May. <u>True</u>

B. Write the missing month:

1. July

2. May, June

3. September

EXERCISE: 5. 3

B. How long will it take the hour hand to move from

1. 9 Hours

2. 10 Hours

3. 10 Hours

Unit 6: INFORMATION PROCESSING

EXERCISE: 6.1

1.

9	7	2

What are the possible ways to write three digit numbers without repeating these numbers?

       Ans: 972, 792, 279,297, 729, 927

2. In a total you have to choose tiffin and a drink. Here is the list

Tiffin	drink
Idly	Tea
Poori	Coffee
Dosai	Milk
Pongal	

List the possible combination systemically.

Idly – Tea	Poori- Tea	Dosai – Tea	Pongal – Tea
Idly – Coffee	Poori – Coffee	Dosai – Coffee	Pongal – Coffee
Idly – Milk	Poori – Milk	Dosai – Milk	Pongal – Milk

3. Kavin has four cards:

9	7	4	6

a) List down all 3 digit numbers possible with these cards. (without repetition)

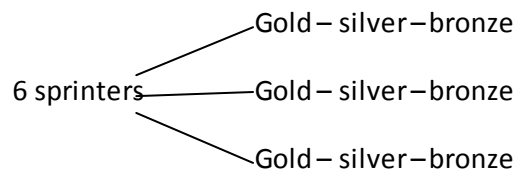Ans: 974, 946, 976, 964, 947, 967

          794, 746, 796, 764, 749, 769

          497, 476, 469, 479, 467, 496

b) What is the largest 4- digit odd number that can be made without repeating the numbers?

Ans: 9647

4. There are 6 sprinters (an athlete who runs fast in short race). In how many different ways 3

medals.

```
                              Gold – silver – bronze
6 sprinters ───────────────── Gold – silver – bronze
                              Gold – silver – bronze
```

EXERCISE 6.2

a) Which subject is the highest score?

Maths

b) Which subject is the lowest score?

English

c) Which subject is the same score?

Tamil and science

6.3 Representation of data in pie - chart

Answer the following questions by using given data.

1. 50

2. 20

3. 10

4. 10

EXERCISE 6.3

1. Write down the percentage of content in human body from the given pie – chart

Ans:

       Water - 60%

       Protein – 24%

       Others – 16%

2. The number of varieties of ice creams in an ice cream parlour is given below as a pie – chart

1. How many varieties of vennila ice cream are there?   Three

2. Find the number of vennila ice creams.   50

3. Find the total numbers of chocolate and pista ice cream.   50 (30 to 20)

4. Find the total number of ice creams.   100