Name/Index No:...   Time: 2 Hours

PART I
ANSWER ALL THE QUESTIONS IN THE PAPER

1. If one pencil cost Rs. 12/= Find the price of 9 pencils.

2. 2.Simplify $7+8 \times 2$

3. Write all the prime factors of 18

4. Fill in the blanks

    8g 42 mg = 8g + _____ mg

    = _____ mg

5.A= { Square number between 10 and 50 } Represent set A in a Venn diagram
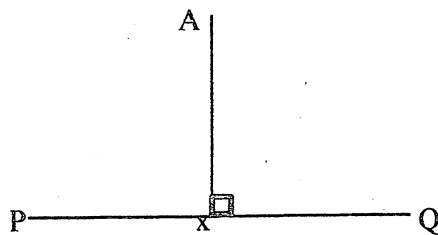
6.subtract

Y	M	D
6	0	12
-3	8	25

7.Write the number of vertical edges and faces in a square pyramid

8. Multiply 2km 38m × 7

9.Find the value of $A\hat{X}Q$ If AX ⊥ PQ in the given figure

A
|
|
|
P————————X————————Q
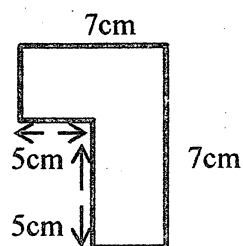
10.Write two improper fractions

11.Write an algebraic expression for the perimeter 'P' in the simplest form using the given data in the following figure

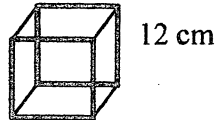2a

a   3a

12.Express $4\frac{3}{8}$ as a decimal number

13.Expand and find the value of the expression $2^5 × 5$

14.Find the area of the given figure bellow

7cm

5cm   7cm
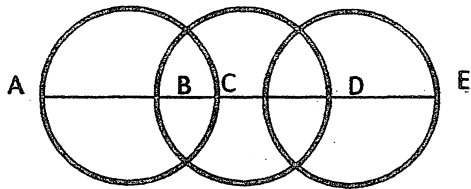
5cm

15.Simplify 6l 75ml - 4l -324ml

16.Find the volume of a cube with the length of a side is 12 cm

12 cm

17Write all the leap years between the year 2098 and 2019

18.Express $\frac{p}{5}$ - 4 in word

19.The figure shows three similar circles with center B,C,D, If AE = 20 cm find the length of AD

01)

a) Answer the following Question using the given card

2	x	2a	<
3x	y	+	-
9	10	-	>

i). Using the above mathematics operation numbers and algebraic terms build up an algebraic expression

ii) Build and simplify another algebraic expression with 4 terms including 2 like terms

iii) Build up and Simplify a simple equation

iv) Solve the inequality 3x>9 and represent 3 set s of solution on a number line

b) The price of a book is three times greater than the price of a pen. Pathum spent Rs.60/= to buy a book and a pen if the price of a pen is Rs. x

i) Find the price of a book using x

ii) Build up and solve an algebraic equation to show the cost of a book and a pen

iii) Find the price of a book and a pen

02) Lahiru spent 1/3 of his salary for the transport 1/6 for clothes and 1/2 of it for food

i) for which activities did he spend most from his salary

ii)Write the following mixed numbers as improper fractions

a) $4\frac{2}{3}$ b)$3\frac{7}{15}$

iii)Fill in the blanks of following

$$\frac{1}{4} \div 3 = \frac{1}{4} \times \ — = —$$

03) Construct the following using the straight edge and the pair of compass

i)Construct a circle with center O and the radius 3 cm

ii) Draw the diameter AB

iii)Find the length of AB

iv)Draw the diameter CD perpendicular to AB

v)Join ABCD Name the Quadrilateral

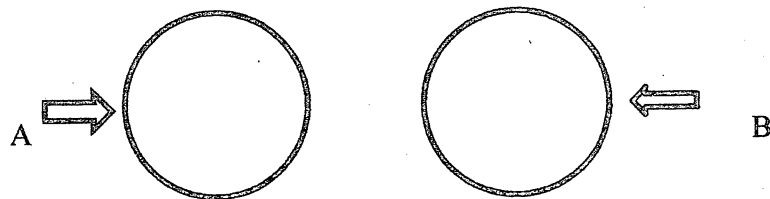vi) Give 2 reasons to show why do you give that name for above (v)

04)

a)

i)If the set of letters of the word "POLONNARUWA" is X
write set X using its elements

ii)

2	4	6
5	8	10
13	9	7

Draw a venn diagram as below by taking two suitable sets and name it

A ⇒ ◯   ◯ ⇐ B

iii)Write set A and B as a description

b)Simplify

(i)2.314×100

(ii)8.23×5

(iii)$1.2 \div 10$

(iv)$2kg\ 400g \div 4$

05)   Mark the given points on a coordinate plane

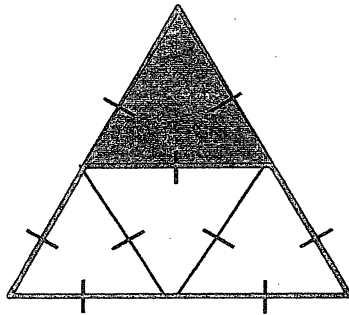i) a= (3,4) , b= (5,2) , c= (4,8) , d=(8,6)

ii)Join AB,BD,DC,CA

iii)Give a name for the figure you obtained

iv)Write the coordinates of a point inside the figure and outside the figure
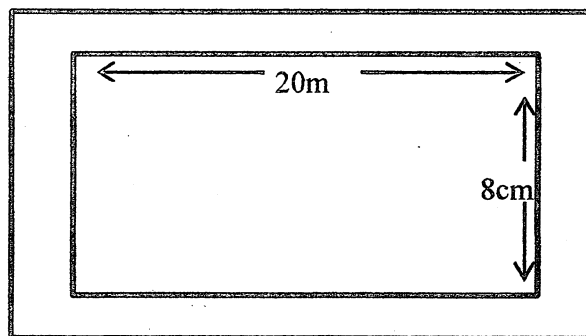
v)Write the coordinates of the

06)

(a)

i)The area of the shaded portion is 8 cm^2. find the area of the whole figure

ii) Find the area of a rectangle where the length is 20 cm and the breath is 5cm

(b) find the length of a side of a square where the area is equal to the above rectangle

iii)

As above Figure there is a 2 cm width road around the rectangle land with the length 20cm and the width8cm

a) Find the length and the breath of the land with the road

b) Find the area of the land with the road

c)Find the area of the road

07) The following table shows the score of two cricket teams with in the first five overs in a cricket match

Over/ Team	1st over	2nd	3rd	4th	5th
Sri lanka	5	6	5	8	10
India	5	4	8	7	8

i)Represent the above data in a multicolumn bar graph

ii)Find the total score obtain by the two teams within the first five overs separately

b)The following stem and leaf diagram shows the number of students in several classes of a rural school

i)How many classes are there in this school

ii)How many classes are there with same number of students

iii)Find the range of the numbers of students in a class room

Stem	Leaf
2	9
3	2,6,7
4	1,2,3,4,4,4,5