බස්නාහිර පළාත් අධ්‍යාපන දෙපාර්තමේන්තුව
மேல் மாகாணக் கல்வித் திணைக்களம்
Department of Education - Western Province

වර්ෂ අවසාන ඇගයීම
ஆண்டு இறுதி மதிப்பீடு **- 2021**
Year End Evaluation

ශ්‍රේණිය தரம் Grade	7	විෂයය பாடம் Subject	Mathematics	පතුය வினாத்தாள் Paper	I/II	පැය மணித்தியாலம் Hours	2

PART I

- **Write answers for the questions 1 – 25 on this paper itself.**
- **Each question carries 2 marks.**

1) Underline the figure which shows the angle of 135^0
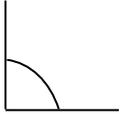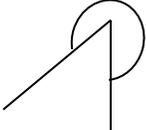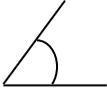
(I) (II) (III) (iv)

2)

I) Write the coordinate of the point **P**

P = (_____)

Ii) Mark the point Q = (4,0) on the coordinate plane.
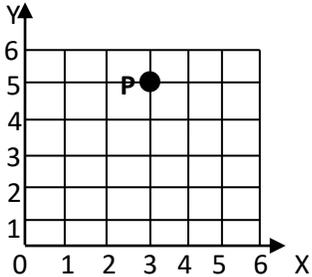
3) Represent the set A in a Venn diagram.

A = { square numbers between 20 and 50 }

4) 30 and 45 written as follows.
   30 = 2 × 3 × 5
   45 = 3 × 3 × 5
   Find the H.C.F of 30 and 45

5) Underline the correct statements given below if $2^5 = 32$
   I) Five to the power two is thirty two.
   II) Two to the power five is thirty two.
   III) In 2^5 base is two and power is five.
   IV) In 2^5 base is five and power is two.

6) Find the value of this.

$$\left(\frac{-3}{13}\right) + \left(\frac{+7}{13}\right)$$

7) Add.

Years	months	days
15	11	09
10	09	20

$+$

8) In the given figure four equal parts are removed from a square lamina. Draw all the axis of symmetry in the given figure.
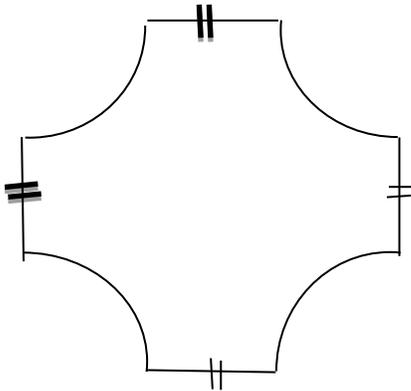
9) Simplify.

$21 - 66 \div 6$

10) Simplify.

$3a + 5b + 7a - 4b - 8a$

11) Fill in the blanks

This figure shows a net of _____

It has 6 vertices, 9 edges and _____ Faces.
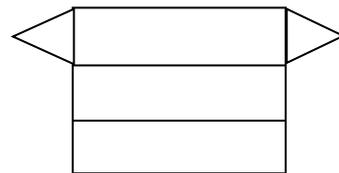
12) Write $\frac{3}{20}$ as a percentage.

13) Find the value of this.

$23 l \ 165 \ ml \div 5$

14) If 2cm represents 16m write that scale as a ratio.

15) The centre of the given circle is P. Fill in the blanks according to the figure.

I) There are 3 radii in the given figure. Two of them are
AP and PQ. The other radius is _____

II) The diameter of the given figure is _____
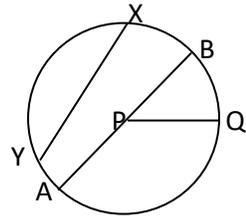
16) Find the area of the shaded part.

10cm

2cm

5cm
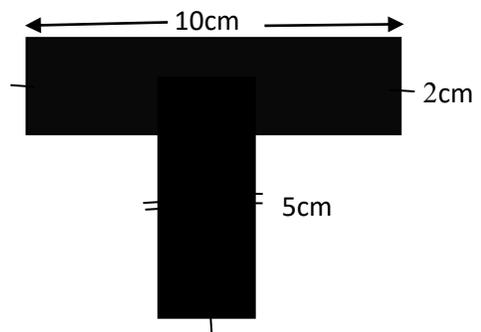
17) Perimetre and the area of this rectangle are 40 cm and 75 cm^2.

Its   length = _____

Breadth = _____
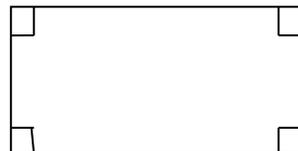
18) Fill in the blanks using the suitable words given in the bracket.
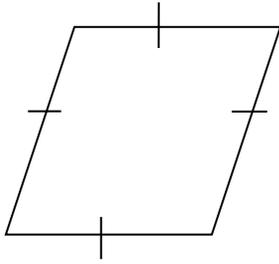
In this polygon all side are equal but angles are not equal. This

_____ (convex / concave) polygon is not a

regular polygon. It is a _____ (square / rhombus)

19) Mass of an exercise book is 237g . Find the mass of such 10 books in kilogramm.

20) Find the volume of the given cuboid.

8cm

10 cm

20 cm
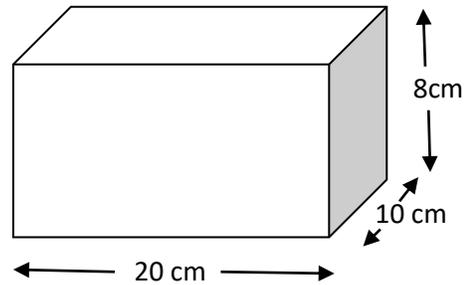
PART II
- **Answer the first question and any other 4 questions only.**
- **First question carries 16 marks and each question carries 11 marks.**

1) From the words height, depth, width and thickness are described a length. Recall your knowledge about the activities and solved problems done using the units of length as milimetres (mm), centimeters (cm), metres (m) and kilometers (km).

   a) I) Write two units of length used in ancient time to measure the length.
      II) Write two relations between the units mm, cm, m and km.
      iii) How many metres are there in 2.85 km ?
      iv) Write the length of 58m 7cm in centimetres.

   b) I) 8 pieces of wires with the length of 21 cm 9 mm cut out from a roll of wire with the length of 5m. Find the length of the remain wire when it is removed.
      ii) Find the value .   46 km 53m ÷ 9
      iii) The perimeter of the equilateral triangle and the rectangle are equal in the given figure.
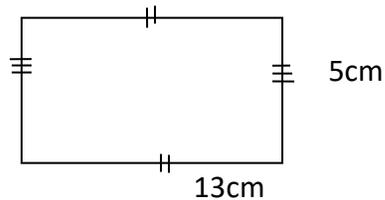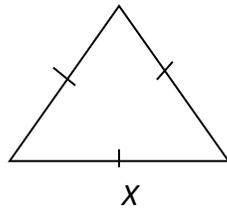
   Find the length of a side of the equilateral triangle.

2) This is the way how Ranjith solved a problem given by his teacher to him who got the highest marks for Maths.
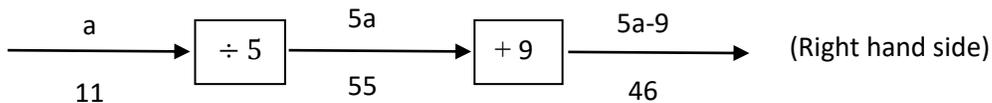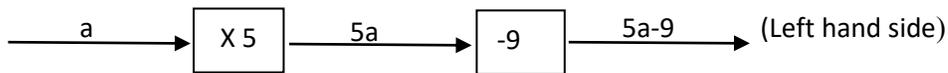
   I) What is the answer of the above problem done by the Ranjith?
   II) Write the equation solved by the Ranjith.
   III) Solve the equation 3x + 7 = 19 using the above flow chart.
   IV) To buy 3 books with one book per Rs.P and 2 pens with one pen per Rs. 20 want Rs. 190.Build up an equation using P.
   V) By solving it find the price of a book.

3) The ratio of the amount of the money with Dharmasiri, Hakeem and Ganeshan is 8: 3: 4.

I) If Hakeem had Rs. 1500 find the amount with Ganeshan had.
II) Find the total amount three of them had.
III) What is the more amount Dharmasiri had than Hakeem ?
IV) If the total amount they had is divided among three of them equally find the amount one of money one of them had.

4) An incomplete table about number of red pens sold during 5 days in a school canteen is shown below and a multiple bar graph is drawn according to that.

Days	Monday	Tuesday	Wednesday	Thursday	Friday
No :of blue pens	15	13	_____	_____	5
No: of red pens	9	_____	4	_____	2
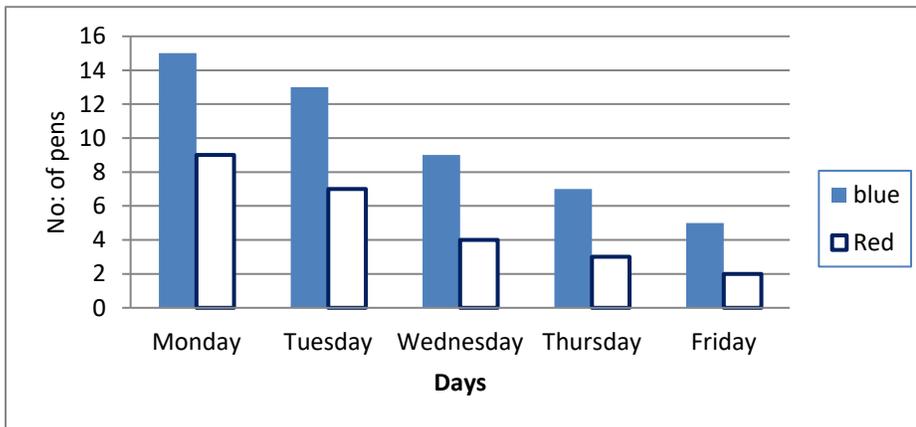
i) Copy the given table in your answer script and complete it using the given bar graph.

ii) Draw the bar graph for all 5 days including the data of Friday in your answer script.

iii) Writ the usage of drawing multiple bar graph.

iv) According to the above graph write 2 decisions which you can get.

5) By using only the compass and the ruler with the scale of cm/mm construct these on same figure.

I) Construct the line segment AB with 7cm.

II) Construct two circles with the centre as A and B and the radius with 4cm on it.

III) Name the intersecting points of two circles as P and Q.

IV) Complete the APBQ quadrilateral.

V) According to the length of sides of the APB triangle which kind of a triangle is that?

VI) Measure and write $\stackrel{\frown}{APB}$

6) a)
I) $\left(10 \times 3\right) + \left(1 \times 5\right) + \left(\dfrac{1}{10} \times 8\right) + \left(\dfrac{1}{100} \times 6\right) + \left(\dfrac{1}{1000} \times 4\right)$

   Write the number represent in the above in digits.
II) Represent this number on Abacus.
      " Twenty eight point zero five"
III) Write this number as a decimal.
         $2 \dfrac{137}{250}$

b) Find the value of these.
   I) 0.9876×100
   II) $74.32 \div 10$
   III) $37.48 \div 4$

7) I) Write these fractions in ascending order.
      $\dfrac{7}{12} , \dfrac{3}{4} , \dfrac{1}{2} , \dfrac{5}{6}$

II) Write $5\dfrac{3}{8}$ as an improper fraction.

III) Find the value.
      $5\dfrac{3}{8} + 2\dfrac{1}{2}$

IV) Find the value.
      $5 - 3\dfrac{7}{10}$

අංකය	පිළිතුර	ලකුණ
1.	(iii)	2
2.	(i) P = (3,5)	1
	(ii) Q ලකුණු කිරීමට	1
3.	A = {25,36,49} A (25 36 49)	1+1
4.	ම.පො.ස. 3×5 15	1 1
5.	(i), (ii)	1+1
6.	$+\frac{4}{13}$	2
7.	අවු. මාස දින 26 08 29	1+1
8.	සමමිතික අක්ෂ සියල්ල ඇදීමට (4)	1+1
9.	21 − 11 10	1 1
10.	$2a + b$	1+1
11.	(i) ත්‍රිකෝණ ප්‍රිස්මය	1
	(ii) මුහුණත් 6	1
12.	$\frac{3}{20} \times 100\%$ හෝ $\frac{23 \times 5}{20 \times 5}$ 15%	1 1
13.	$4l\ 633ml$	1+1
14	2: 1600 1: 800	1 1
15.	(i) PB (ii) AB	1 1
16.	$2 \times 10\ cm^2 + 5 \times 2\ cm^2$ $30cm^2$	1 1
17.	දිග 15 cm	1
	පළල 5 cm	1
18.	(i) උත්තල (ii) රොම්බසකි	1 1
19.	$237 \times 10 = 2370g$ $2.37kg$	1 1
20.	$V = 20 \times 10 \times 8\ cm^3$ $= 1600\ cm^3$	1 1
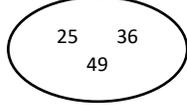
අංකය	පිළිතුර II කොටස	ලකුණ
(01)		
i.	නිවැරදි පිළිතුරු සඳහා	1+1
ii.	සම්බන්ධතා දෙකට	1+1
iii.	2.85×1000 $= 2850m$	1 1
iv.	$5807cm$	1
vi.	$175cm\ 2mm$	2
	5m-1m 75cm 2mm	1
	$3m\ 24cm\ 08mm$	1
vii.	$5km\ 117m$	2
viii.	$3x = 36cm$ $x = 12\ cm$	1 1
(02)		
i.	$a = 11$	1
ii.	$5a – 9 = 46$	2
iii.	 x = 4	2 2 1
iv.	3p + 40 = 190	2
v.	P = 50	1
(03)		
i.	$\frac{3}{15} \longrightarrow 1500$ $\frac{1}{15} \longrightarrow 500$ $\frac{4}{15} \longrightarrow 2000$	1 1 1
ii.	$\frac{1}{15} \longrightarrow 500$ $\frac{15}{15} \longrightarrow 500 \times 15$ රු. 7500	
iii.	$\frac{8}{15} \longrightarrow$ රු.4000 4000 - 1500 රු. 2500	2 1 1
iv.	$\frac{7500}{3}$	1
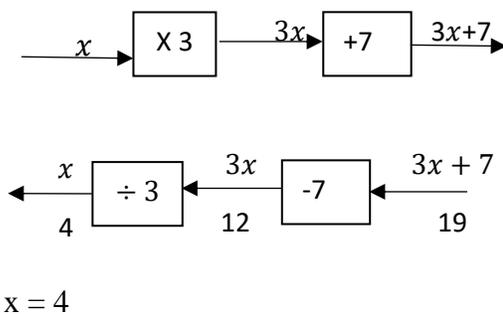
අංකය	පිළිතුර	ලකුණු
(04)		
i.	<table><tr><td></td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td></tr><tr><td>නිල්</td><td></td><td></td><td>9</td><td>7</td><td></td></tr><tr><td>රතු</td><td></td><td>7</td><td></td><td>3</td><td></td></tr></table>	1+1 1+1
ii.	තීර ප්‍රස්ථාරය ඇඳීමට	2
iii.	▨ නිල් පෑන් ▢ රතු පෑන්	1 1
iv.	අදාල පිළිතුරට	1
v.	අදාල පිළිතුර සඳහා	1+1
(05)		
i.	AB = 7cm ඇඳීම	2
ii.	වෘත්ත දෙක ඇඳීම	2
iii.	PQ ලකුණු කිරීම	2
iv.	චතුරස්‍රය සම්පූර්ණ කිරීම	2
v.	සමද්විපාද ත්‍රිකෝණයකි.	1
vi.	$A\hat{P}B$ මැන අගය ලිවීම	2
(06)		
i.	35.864	2
	තිස් පහයි දශම අටයි හයයි හතර	2
ii.	ගණක රාමුවේ නිවැරදිව ලකුණු කිරීම	3
iii.	$2+\frac{137\times4}{250\times4}$ $2+\frac{548}{1000}$ 2.548	1 1 1
iv.	(a) 98.76 (b) 7.432 (c) 9.37	1 1 1
(07)		
i.	$\frac{7}{12}, \frac{9}{12}, \frac{6}{12}, \frac{10}{12},$	2
	$\frac{1}{2} < \frac{7}{12} < \frac{3}{4} < \frac{5}{6}$	1
ii.	$\frac{(5\times8)+3}{8}$ $\frac{43}{8}$	1 1
iii.	7+3/8+4/8 $7\frac{7}{8}$	2 1
iv.	$2-\frac{7}{10}$ $1+\frac{10}{10}-\frac{7}{10}$ $1\frac{3}{10}$	1 1 1