Zonal Education Office - Jaffna.

Third Term Examination - 2011

Maths

Grade - 07 **Time : - 2 hours**

Part - I

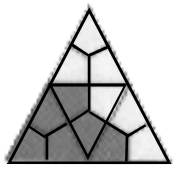
- **Answer all questions on this paper itself.**
- **20 x 2 =40 marks**

01. Fill the empty cage.
176 x 23 = 180 x 23 – ☐ x 23

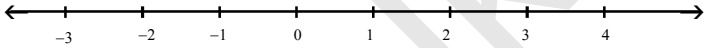
02. Write 9 % as a decimal number

03. Write the number 30 more than (–70)

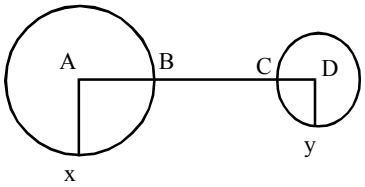
04. Write the shaped part as a fraction of the whole figure.



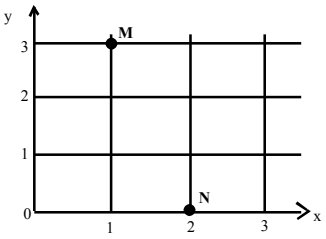
05. Solve the inequality x + 3 > 5, and represent the solutions on the given number line.



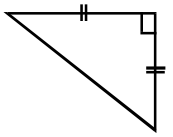
06. A and D are the centres of the circles in the given figure. If
AX = 1.9cm,
DY = 1.4cm and,
AD = 5.5cm ,
Find the length of BC.



07. In the given cartesian plane Write the co-ordinates of M and N.



08. What is the suitable name of the given triangle.



09. Bagavan sathya saibaba was born on 23.11.1926. He past away (Mahasamadhi) on 24.04.2011. What was the age when he past away?

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10. Write the set of parallel lines, from the given figures.

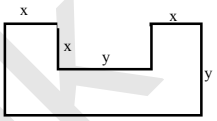


a b c d e

11. Subtract :

	l	ml
	6	50
−	3	70

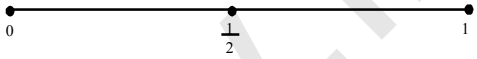
12. Find the perimeter of the given figure, and give the answer in simplest form (all measurements in cm)



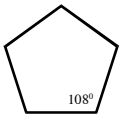
13. If 2311* is divisible by 9, what is the suitable digit for *?

14. The length of AB is 11cm in a scale drawing drawn to the scale 1 : 1000. Find the actual length of AB.

15. "A student studying hardly passes the exam". Represent the probability of the above statement in the given number line.

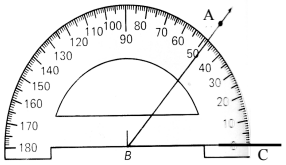


16. An interior angle of a regular pentagon is 108^0 . Can you make a pure tessellation using regular pentagons? Give the reason.



17. If the total weight of 6 equal packs is 8kg 400g. Find the weight of one pack.

18. What is the value of $\hat{AOB}$



19. If a=2 and b=5 find the value of $a^2 + 2b^3$

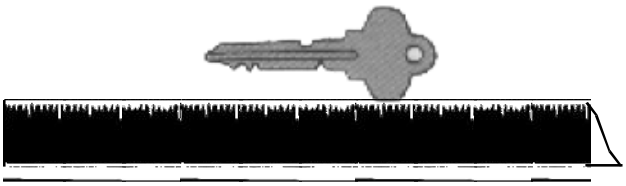
20. A certain portain of the land covered by 300 equal size square tiles of which length of a side 14cm. Find the area of the land covered by tiles.

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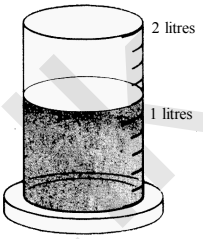
Part II

Answer the first question and any other four questions.
1 x 16 + 4 x 11 =60 marks

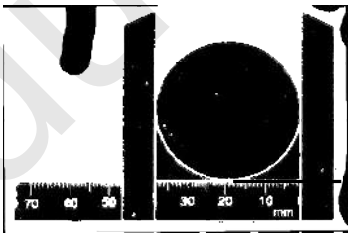
01. i.What is the length of this key?



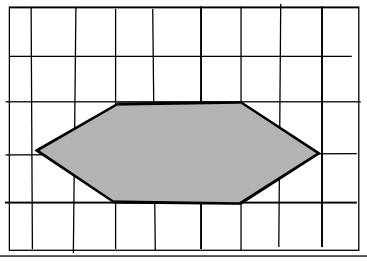
ii. What is the volume of liquid in the container?



iii. What is the radius of the circle?



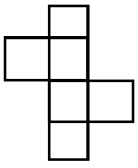
iv. Write the area of the following figure in the blanks.



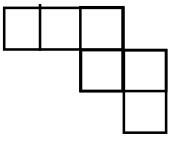
v. What is the weight of this parcel?



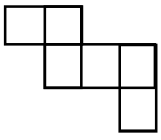
vi. From the nets given below. Select the nets that can be used to construct a cube. (Cut the wrong answer)



Yes / No



Yes / No



Yes / No

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02. i) Write all the factors of 24.

ii) Write all the factors of 32.

iii) What are the common factors of 24 and 32.

iv) What is the H.C.F of 32 and 24.

v) Give $\frac{24}{32}$ in simplest form.

vi) What is the L.C.M of 24 and 32.

11

03) i) Write $\frac{9}{20}$ as a decimal number?

ii) Write $4\frac{1}{10}$ as a decimal numbers?.

iii) Write $\frac{7}{40}$ as a decimal number using $\frac{1}{40} = 0.025$

iv) Simplify: $\frac{9}{20} + \frac{7}{40}$

v) Simplify: $7\frac{2}{15} - 5\frac{1}{3}$

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04. The marks obtained by the students in a school for the grade 5 scholarship exam is shown in the stem and leaf diagrm given below.

Stem	Leaf
10	1 7
11	0 4 4 6 9
12	1 2 5 7 7 7 9
13	0 1 3 3 6 7 8 8
14	2 4 7 8 9 9
15	1 7 8 9
16	8 9
17	6

i) What is the least marks?

ii) What is the highest marks?

iii) If the cut out marks is 151, how many students qualify the above exam.

iv) What is the number of students in the class.

v) What is the percentage of the students who qualified in the exam.

vi) The SDS honoured giving gold medal for the three. students who got highest marks. What is the least marks to give away the prize.

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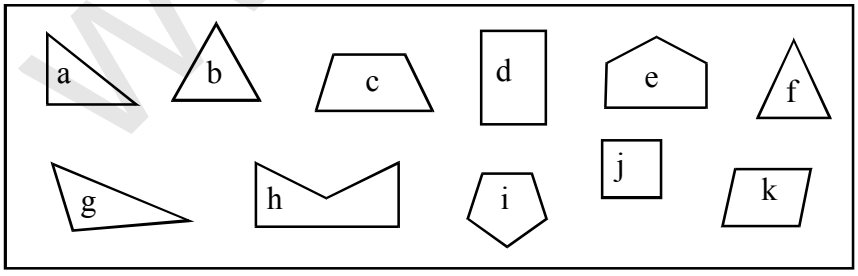
05. a. Wirte the following sets with list of elements.

i. A = {Tamil letters have symmetry} ii. B = {Letters in the word "madam"}

b. Write the set D as a description form

D = { 132, 213, 231, 123, 312, 321}

c.



i. Separate the above figures into groups, according to the sides. (use the letters as elements)

ii. Describe the set that you wrote?

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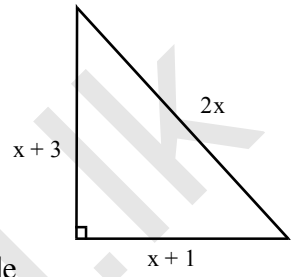
ஒவ்வொரு நாளும் புதிது புதிதாக, பார்க்க மறவாதீர்கள்...

06) a) Kamal has x pens. Kamal has 3 pens more than Vimal has. How many pens Vimal has?

b) Simplify

$4p + 3q - 2q + q$

c) According to the length of the sides given in the triangle.



i. What kind of triangle is it. (angle wise)

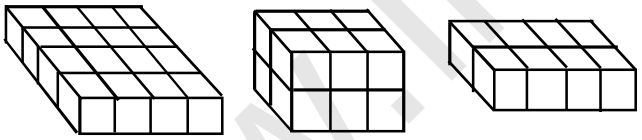
ii. How will call the side having the length 2x

iii. Write the algebraic expression for the perimeter of the triangle.

iv. If x =5cm Find the perimeter of the triangle.

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07) a)



A B C

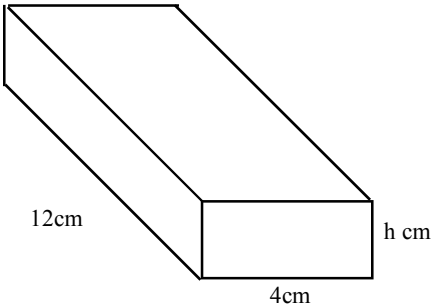
According to the volume in the aove figures . Find the following ratos.

i. A:B

ii. B:C

iii. A:B:C

b) Using the data given in the cuboid find the followings.



i. What is the area of the base.

ii. If its volume is 96cm^3, find the value of h.

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