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ஆண்டாதி மதிப்பீடு - 2018  
Year End Evaluation

ශ්‍රේණිය தரம் } 07 Grade	විෂය பிரிவு } Mathematics Subject	පත්‍රය வினாத்தாள் } I, II Paper	සමය நேரம் } 02 Hours Time
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Name : ..... Index No : .....

- Answer all the questions on this paper itself.
- Each question carries 02 marks.

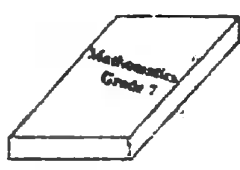
Part I

(01) Simplify.  $3 \times 5 - 4$

(02) Write the suitable value for the blank.  $(+3) + (..4) = (-1)$

(03) Express 265 days in months and days.

(04) Underline the correct word.  
"The angle between two edges of a cover of a book is (Static / Dynamic) in nature."



(05) Find the value.  $38.3 \div 100$

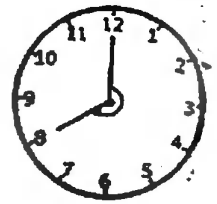
(06) Express  $3\frac{2}{5}$  as an improper fraction.

(07) Solve.  $7a = 56$

(08) If the angle formed by the hands of a clock in 5 minutes is  $30^\circ$ ,

(i) What is the magnitude of the angle shown in the figure?

(ii) What type of an angle is it?



(09) Find the digital index of the number 23 475.

(10) Chalitha's date of birth is 2013.09.07. His sister is 02 years 06 months and 03 days younger than him. What is her date of birth?

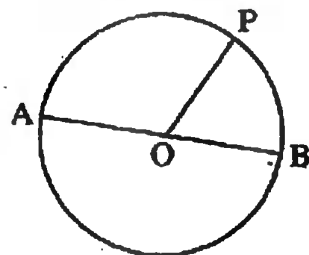
(11) (i) Express 0.28 as a fraction.

(ii) Write the above answer in simplest form.

(12) In the circle with the center O,

(i) Name a radius.

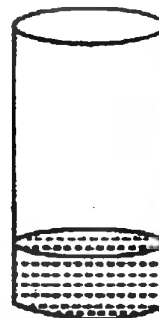
(ii) If  $OP = 4\text{cm}$ , find the AB length.



(13) Write two instances where we can observe parallel edges in the environment.

(14) In a solid with 8 edges, the number of faces and the number of vertices are equal. Using the Euler's relation find the number of faces in it.

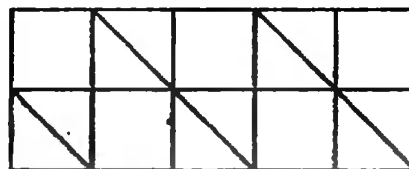
- (15) In the given container, there are 120ml of liquid.  
Estimate the capacity of it.



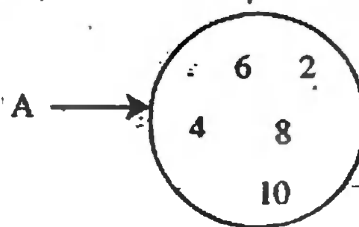
- (16) To make a certain sweet, butter and sugar is mixed to the ratio 3:2. If the quantity of butter used is 480g, what is the quantity of sugar used?

- (17) Price of a book is Rs.  $x$  and the price of a pen is Rs.  $y$ . Kasun bought 3 books and 4 pens. Write an algebraic expression to represent the total amount he paid for it.

- (18) What type of a tessellation is this?



- (19) The set 'A' is represented on a Venn diagram.  
Write the set A by listing its elements in curly brackets.

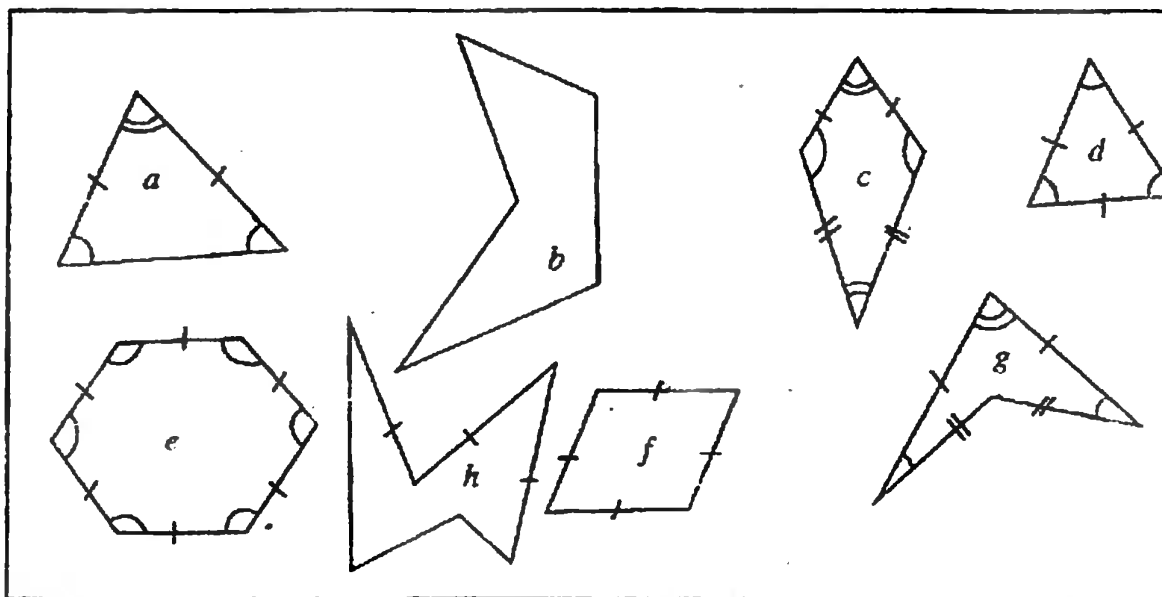


- (20) In a map drawn to the scale 1:500, find the actual length represented by 3.5cm.

## Part II

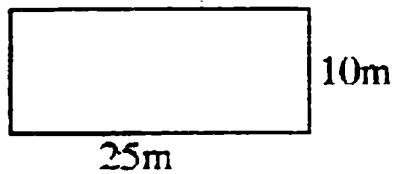
- Answer the first question and another 04 questions only.
- First question carries 16 marks and the other questions carry 11 marks each.

(01) Answer the following questions given, based on the activity that you have done during lesson "Rectilinear plane figures".

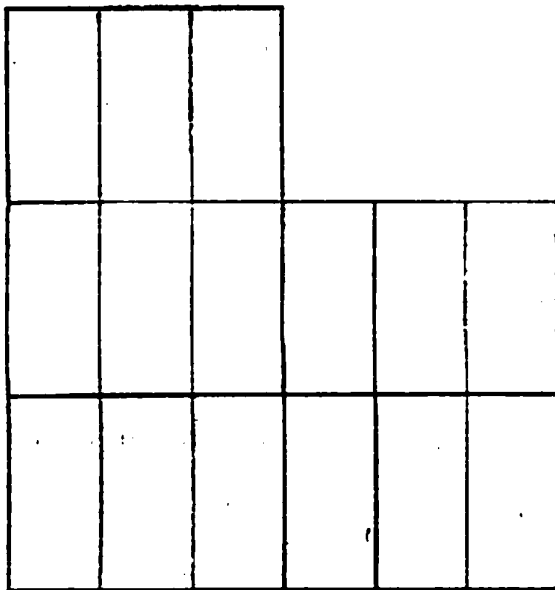


- (a) All the given plane figures are called as polygons.
- (i) What is a polygon? Explain.
  - (ii) Polygons can be mainly categorized into two groups. What are they?
  - (iii) Categorize the above given polygons into the two groups mentioned in (ii).  
(Using the letters used to name the polygon.)
- (b) (i) What are the characteristics of a regular polygon?
- (ii) From the polygons given above, name the regular polygons.
  - (iii) From polygons given above, name the ones which are not regular polygons even though the sides are equal.
- (02) (a) (i) Write 56 as a product of prime factors.
- (ii) Find the highest common factor of 18 and 12.
- (b) (i) Find the least common multiple of 3, 4 and 8.
- (ii) A farmer who owns a land, cultivated chilies on  $\frac{2}{5}$  square kilometers of the land, brinjars on  $\frac{3}{8}$  square kilometers of the land and tomato on  $\frac{1}{4}$  square kilometers of the land. What is the total area of the land that he used for cultivation?

(03) A large land is divided into 15 small blocks of land as shown in the figure



- (i) What is the perimeter of the given figure?
- (ii) Find the area of the given figure.
- (iii) Find the area of the large land which have 15 such blocks.
- (iv) If the 15 blocks are divided as shown in the below figure, find the perimeter of the large land.



- (04) (i) Draw a Cartesian plane where the  $x$  - axis and  $y$  - axis are marked from 0 to +6.
- (ii) Mark the following points on the above Cartesian plane.  
 $A(0,2)$ ,  $B(1,6)$ ,  $C(3,4)$ ,  $D(5,6)$ ,  $E(6,2)$ ,  $F(3,0)$
- (iii) Join the above points with straight line segments in order of the letters to obtain a closed plane figure.
- (iv) Draw the axis of symmetry of the figure that you have obtain
- (v) The  $x$  coordinate of any point on the axis of symmetry takes one value. What is that value?

(C5) Information on the number of new accounts that were opened at a certain bank, during first six months of a certain year is given in the following table.

Month	No of accounts
January	40
February	55
March	70
April	25
May	40
June	60

- (i) Represent the above information on a column graph.
  - Using the graph, answer the following questions.
- (ii) In which month has the most number of accounts been opened?
- (iii) In which two month have an equal number of accounts been opened?
- (iv) How many accounts were opened during the first three months of the year?
- (v) Find the different between the total number of accounts opened during the first three months and the total number of accounts opened during the months May and June.
- (vi) Minimum number of accounts were opened in the month of April. State a reason for that.

(C6) Rani made a fruit drink by mixing  $\frac{1}{2}$ l of fruit juice and 1.5l water to serve some friends who come to her house.

- (i) How many liters of fruit drink were prepared?
- (ii) Express that amount in milliliters.
- (iii) If the capacity of a serving glass is 125ml, how many glasses of fruit drink were prepared?
- (iv) If the number of glasses of fruit drinks that she prepared were not sufficient for two of her friends, find the total number of friends who came to her house.

(07) (a) (i)

**Price is reduced up to 60 %  
for shoes**

Write the percentage given in the advertisement in your words.

(ii) Express 75% as a fraction and write it in the simplest form.

(b) In a group activity, group 'A' scored  $\frac{17}{20}$  marks and group 'B' scored  $\frac{24}{30}$  marks.

- (i) Express the marks scored by group A as a percentage.
- (ii) Express the marks scored by group B as a percentage.
- (iii) Which group scored more marks?