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**Royal College - Colombo 07**

වර්ෂ අවසාන ඇගයීම - 2021  
Year End Evaluation - 2021

Grade - 6

Mathematics

Time - 02 hours

Name : ..... No : ..... Class : .....

Part I

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

01. Name 2 objects that can draw circular patterns.

02. Write the quotient and the remainder of  $27 \div 2$ .

03. What is the largest unit fraction?

04. Write 'ten billion eight million nine' in standard form.

05. Write the suitable value for the given blanks.

$$\begin{array}{r} 85 \square \\ - 386 \\ \hline 4 \square 2 \end{array}$$

06. (i) Write all the integers between  $(-2)$  and 1.

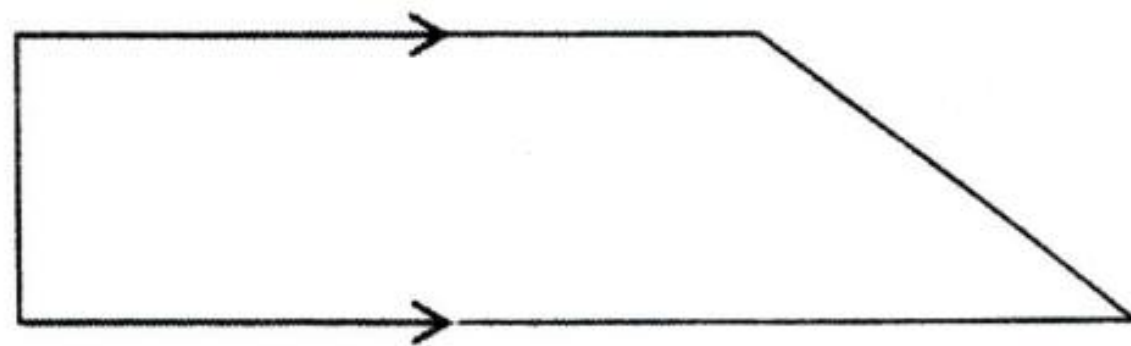
(ii) According to that, write the largest integer.



07. Express 8075g in Kilogrammes and grammes.

08. If  $x = 18$ , find the value of  $x - 5$ .

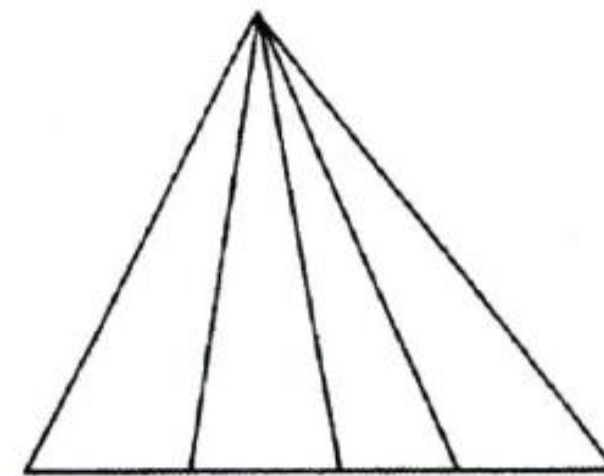
09. (i) Suggest the suitable name for the given quadrilateral.



(ii) Write the special feature of this figure.

10. What is the angle between the minute hand and the hour hand of a clock which is indicated by 8.00 a.m.?

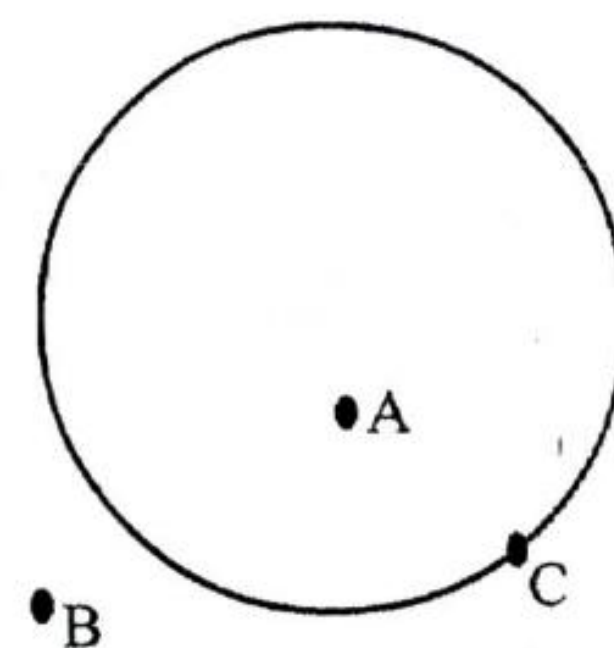
11. Write the number of triangles in the given figure.



12. In the given figure.

(i) What is the letter out of the circle?

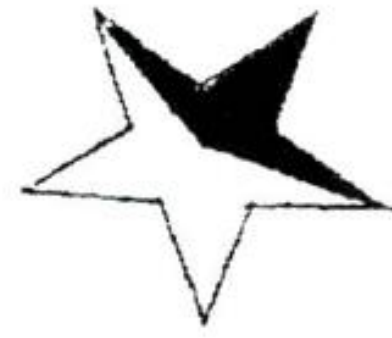
(ii) What is the letter on the circle?



13. What is the solid object with only curved surfaces without edges and vertices?



14. What fraction of the whole diagram is the part shaded and express the answer as the simplest form.



15. What is the value represented by  $\overline{\text{IIII}}$   $\text{IIII}$ ?

16. Express 3 l 25 ml in milliliters.

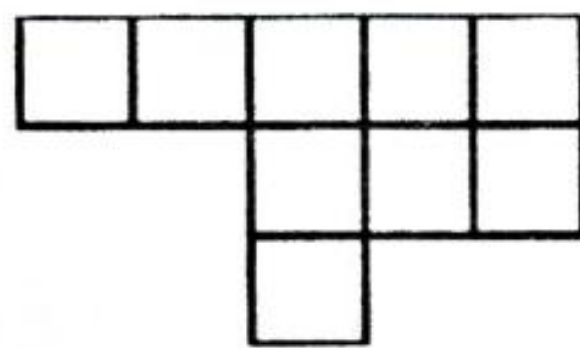
17. Write all the factors of 6.

18. What is the number spread out below?

8 hundreds + 5 tens + 3 ones + 3 tenths + 7 hundredths

19. Write  $5 \times 5 \times 5 \times 5 \times 5 \times 5$  in index form.

20. The area of the small square is given by 1 cm x 1 cm. find the total area of the figure.







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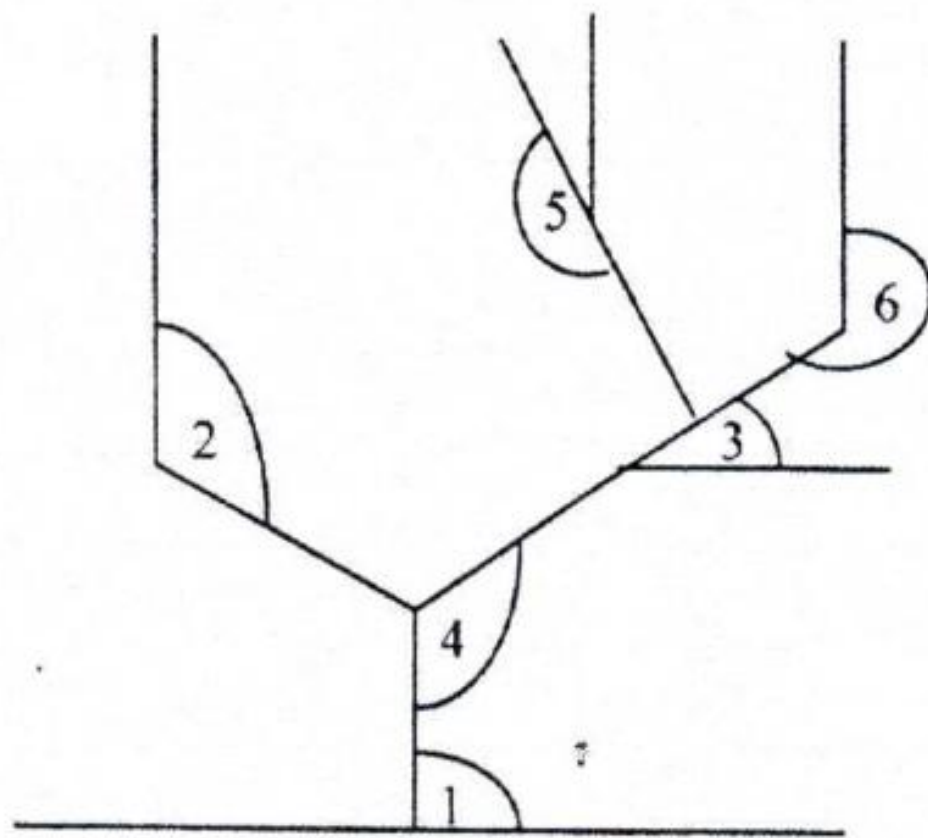
Grade - 6

Mathematics

Part II

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

01. (a) Identify and write the type of angles given in numbers in the following diagram.



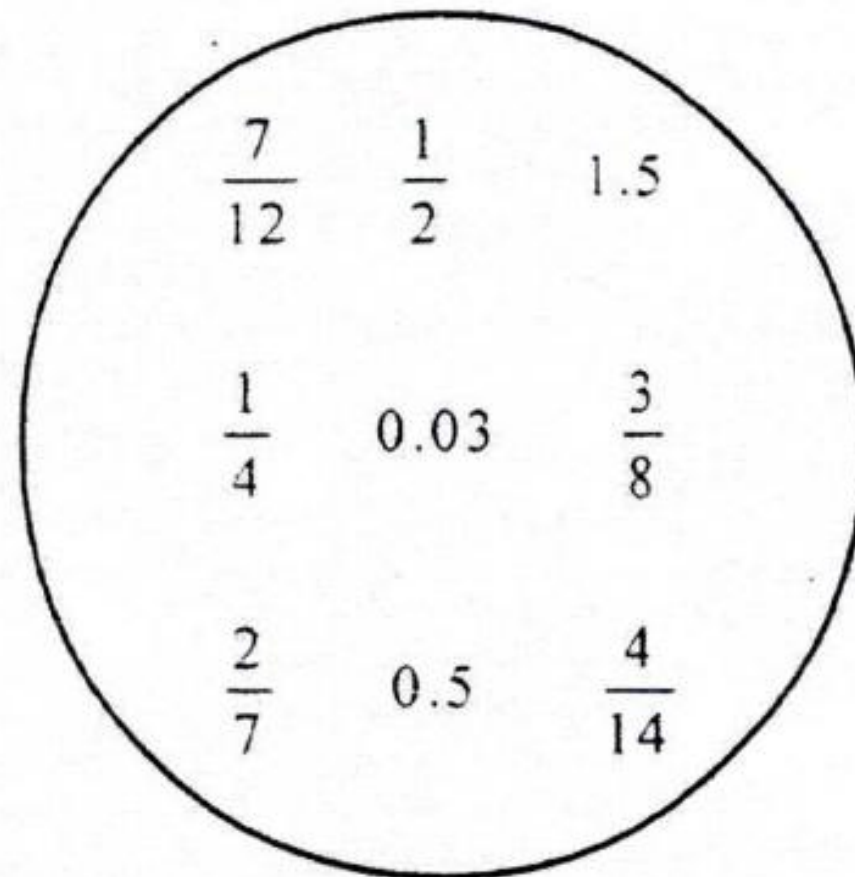
- 1 - .....
- 2 - .....
- 3 - .....
- 4 - .....
- 5 - .....
- 6 - .....

(b) Indicate the following information on a diagram. Mark the north ↑ by drawing an arrow on the right side of the paper.

- (i) The main office is located in the middle of the school premises.
- (ii) The main gate is located on the north of the main office.
- (iii) The cafeteria is located on the north-east of the main office.
- (iv) The laboratory is located on the south of cafeteria and on the east of main office.
- (v) The parking space is located on the north-west of the main office.
- (vi) The class rooms are located on the south-west of the laboratory and on the south of the main office.
- (vii) The library is located on the east of class rooms.
- (viii) The play ground is located on the north west of the classrooms and on the west of the main office.
- (ix) The computer unit is located on the south-west of the main office.



02.



Based on the above fractions and decimals within the circle, write.

- (a) (i) an unit fraction.  
(ii) an equivalent fraction to  $\frac{2}{7}$   
(iii) Write  $\frac{5}{10}$  as a decimal number  
(iv) Express the decimal numbers within the circle using ">".

(b) Find the value of  $\frac{1}{12} + \frac{1}{6} + \frac{1}{3}$

3. Simplify:

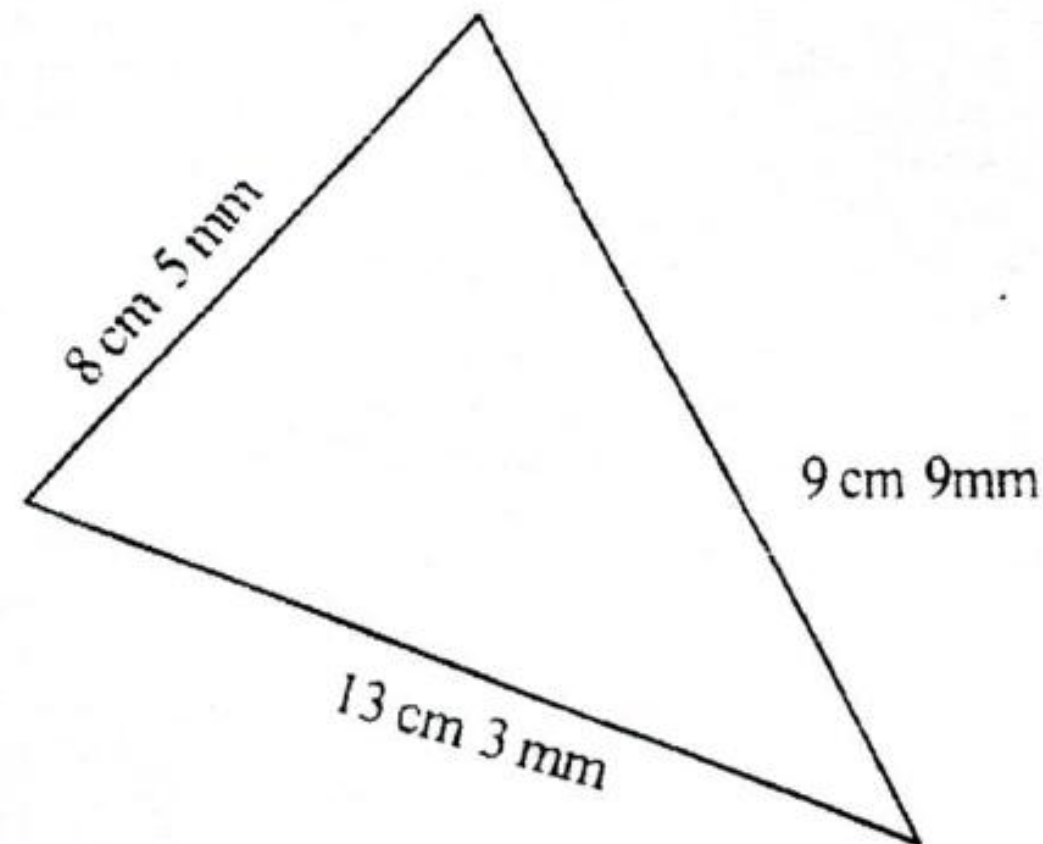
(a) (i)  $98 \times 47$  (ii)  $3765 \div 15$

(b) (i)	minutes	seconds	(ii)	hours	minutes
	+ 8	47		10	21 -
	<u>3</u>	<u>56</u>		<u>3</u>	<u>47</u>
	<u><u>3</u></u>	<u><u>56</u></u>		<u><u>3</u></u>	<u><u>47</u></u>

(c) Convert 120 hours into days.



4.



- (a) (i) find the perimeter of the given diagram in centimeters and millimeters.
- (ii) Express the answer you got only in millimeters.
- (b) A flower bed is in the shape of rectangle. Its length is 15m 35cm while its breadth is 8 m 90 cm
- (i) By how much the length is greater than the breadth?
- (ii) Express the above answer only in centimeters.
- (c) The length of a rectangular play ground is 28 m and its perimeter is 100 m.  
Find the breadth of the play ground.

5. (a) Using the numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10.

- (i) Write all the even numbers.
- (ii) Write all the odd numbers.
- (iii) Write all the prime numbers.
- (iv) Write all the composite numbers.
- (v) Write all the triangular numbers.
- (vi) Write all the square numbers.
- (b) Which triangular number is 36 in the triangular numbers?



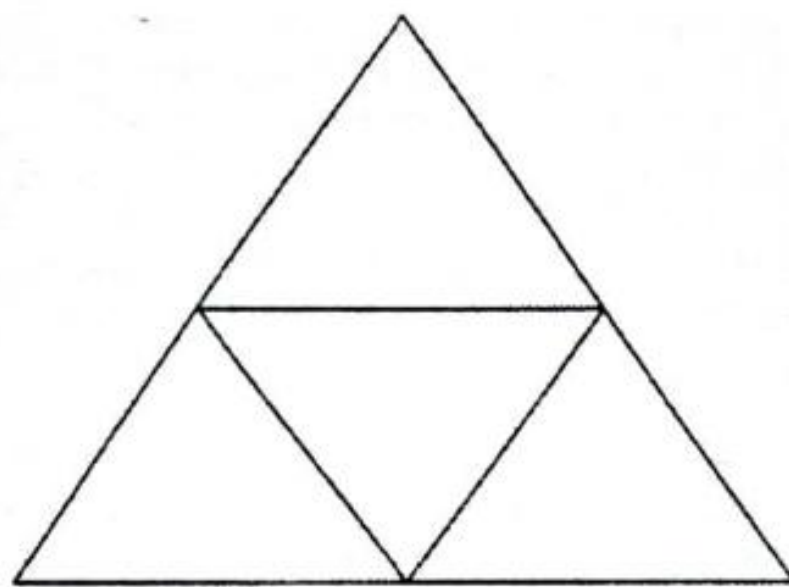
6. The following table indicates the attendance by students in a certain class of Vidya Vidyalaya.

The mode transport	Number of students
by bus	14
by van	12
on foot	08
in personal vehicles	06
by bicycle	05

- (i) Indicate the above information on a picture graph.
- (ii) What is the mode of transport used by the most number of students?
- (iii) Find the total number of students.
- (iv) Express the number of students coming by vans as a fraction of the total number of students.

7. Separate the following item into two groups by using a common feature.

book,	guitar,	violin,	pencil,	Tabla
pen,	colour,	pastel box,	flute	



- (i) What is the object you can make from the above sketch?
  - (ii) Write the number of edges, vertices and faces of it.
- (c) (i) Find the value of  $3^2 \times 2^3$
- (ii) What is the largest number out of  $2^3$  and  $3^2$  ?