



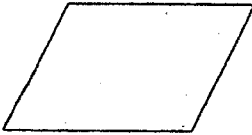
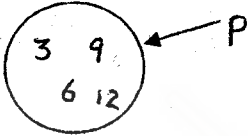
Devi Balika Vidyalaya – Colombo 8
First Term Evaluation
Mathematics

Grade 7

Time 1 ½ hours

- Answer all questions.

Part - I

01.	Write the number of axes of symmetry in this parallelogram.	
02.	Write down the set P in terms of a common property of its elements by which the elements can be clearly identified.	
03.	Write 27 in index notation with 3 as the base.	
04.	Simplify. $36 \div 3 + 1$	
05.	Write names of 2 objects which have parallel lines.	
06.	Find the value of $2x^3y$ when $x = 2$ and $y = 1$	
07.	Circle the numbers which are divisible by 3 i) 114 ii) 701 iii) 2103 iv) 941	
08.	Find the least common multiple of 24 and 36	
09.	Is 1800 a leap year? Give reasons.	
10.	Write the expression given below in index notation. $a \times b \times c \times c \times a \times b$	

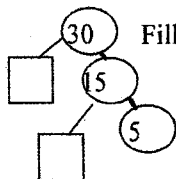
11. The number $6 _ 8$ is divisible by 4 and 9. Find the suitable digit for the empty space.

12. Write 197 seconds, in minutes and seconds.

13. Write the prime factors of 12.

14. Write the first date and the last date of 23rd century.

15. Fill in the blanks using suitable numbers.



16. Years months days

5 10 19

- 3 4 21

17. A person puts 5 Rupees in a till every day. Find the amount of money he would collect during six months.

18. Write 2 multiples of 15.

19. $A = \{\text{Prime numbers between 40 and 50}\}$ Underline the correct statements.

- a) 41 and 49 are elements of set A
- b) 43 and 47 are not elements of set A
- c) 43 is a element of Set A
- d) 42 and 44 are not elements of set A

20. A local Call costs Rs. 2 for the first minute and Rs. 1 per minute thereafter. Write down an expression in rupees for the cost of a 17 minutes long call. Simplify your expression.

Part - II

- Answer four questions only.

01)

- Draw a straight line segment and mark the points P and Q on it such that $PQ = 5$ cm.
- Draw the straight line segment $PR = 5$ cm, using set square such that it forms an acute angle, With PQ at P.
- Draw a straight line through R parallel to PQ in the direction of Q.
- Mark the point S on this straight line such that $RS = 5$ cm. Join QS to obtain a quadrilateral.
- What is the name given to a quadrilateral of the shape PQRS ?

02)

- Write 72 as a product of prime numbers.
- Write 4 factors of 72 by considering their prime factors.
- Sonali bought 24 red beads, 32 yellow beads and 48 blue beads to be made into necklaces. If they are to be made into necklaces such that there is an equal number of red, yellow and blue beads in every necklace and no bead remaining after they are made into necklace, what is the maximum number of such necklaces that can be prepared ?
- Write down separately the quantity of red, yellow and blue beads in a single necklace.

03)

$P = \{\text{Whole number from 11 till 20}\}$

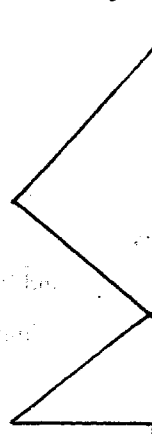
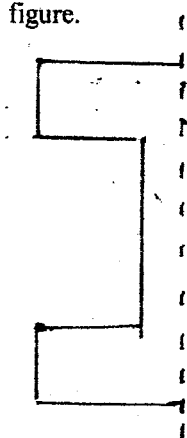
$Q = \{\text{even numbers from 11 till 20}\}$

$R = \{\text{odd numbers from 11 till 20}\}$

- Express each of above sets by writing all the elements of each set within curly brackets
- Represent each of the above sets in venn diagrams
- What can you say about the elements of Q and elements of P ?

04)

- Copy each of the following figures. Complete the figures so that you obtain a bilaterally symmetrical figure.



- Write four letters in the English Alphabet having bilateral symmetry

iii Write down two characteristics of each of the following quadrilaterals

a) Parallelogram

b) Square

iv. Draw a rectilinear closed figure.

05) A ship started to travel to Tokyo harbour on 2016-02-21 from Colombo harbour. It takes 7 months and 21 days for the whole Journey. It takes 3 months and 16 days to pass Jakarta harbour and from there 2 months and 25 days to pass Hongkong harbour. After that it travels to Tokoyo harbour

i. How long it takes to travel to Hongkong harbour form Colombo?

ii. How long it takes to travel from Hongkong harbor to Tokoyo harbor?

iii. Due to a mechanical failiure in the ship it had to stop 28 days in Hongkong. Now how long it takes to travels to Tokoyo from Colombo ?

iv. What the date it travels to Tokoyo now ?

