

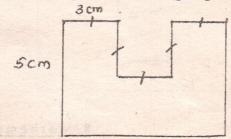
## Devi Balika Vidyalaya - Colombo First Term Test - 2014

## **Mathematics**

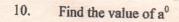
Grade 8

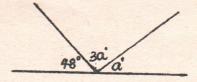
Time: 1 1/2 hrs.

- Answer all question in the given paper itself.
  - 01. Write the general term of the number pattern 5, 8, 11, 14.....
  - 02. Write the 10<sup>th</sup> triangular number
  - 03. Simplify. 3(2x+1)+3x-8
  - 04. Write two features of an adjacent angle.
  - 05. Factorise.6px 2py + 8pz
  - 06. Find the perimeter of the figure given below.



- 07. i) Write the complement of 72°
  - ii) Write the supplement of 890
- 08. Simplify (-4.7) (-5.8)
- 09. Write two characteristics of a regular tetrahedron.





11. Simplify.  $1\frac{3}{5} - \frac{2}{7}$ 

- 12. Write the name of the platonic solid which has 8 faces.
- 13. Simplify'. (-8) X (+3) X (-2)

Write the first two terms of the number pattern 3n - 4 14.

432 568 000 002 Express in word. 15.

Name a

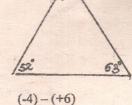
Express 13th square number using two square numbers. 16.

(8

Find the value of X<sup>0</sup>. 17.







Simplify 18,



19. Express 1035 ml in litres.

(±12) X

Write the name of the locus of a point which is moving with a constant distance from a fixe 20; point. Draw a sketch diagram of it.

Find the

Sitismental &

14

8/Methamatics

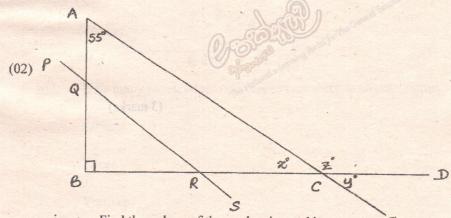
- 01) a) Factorise 9a-12
- (2 marks)

- b) Simplify
  - i) 6p 3q + 4q 9p
- (2 marks)
- ii) (a-2b)-(3a+b)
- (2 marks)
- c) When x = 2, y = -1 find the values of the following expressions.
- i.  $2x^2 3xy$

(3 marks)

ii.  $x^3 + 2y^2$ 

(3 marks)



- i. Find the values of the angles denoted by x, y, z E
- (6 marks)

ii. Name two pairs of corresponding angles

(2 marks)

iii. Name a pair of allied angles

(1 mark)

iv. Name a pair of alternate angles

(1 mark)

v. Name a pair of supplementary angles

(1 mark)

vi. Name a pair of complementary angles

(1 mark)

(03) a) Simplify (-2) - (-8) using a number line

(3 marks)

- b) Simplify
- i.  $\left(-5\frac{1}{3}\right) + \left(-2\frac{1}{4}\right) + 3$

(3 marks)

ii.  $\frac{(-9)X(+8)}{36}$ 

(3 marks)

iii. (+12) X ( ) = (-28)

(3 marks)

- (04) i. Find the general term of the number sequence 3, 7, 11, 15, ......
- (3 marks)

- ii. Find the 12th term of the above number sequence.
- (2 marks)
- iii. Find the first three terms of the number sequence 3-2n
- (3 marks)

iv. Which even number is 928?

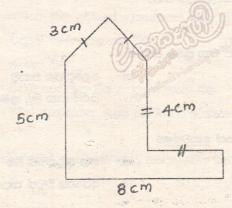
(2 marks)

v. Find the 55th odd number

(2 marks)

(05) a) Find the perimeter of the given figure.





b) i. How many faces, edges and vertices are there in an octahedron.

(6 marks)

Faces

Edges

Vertices

ii. There are 8 edges and 6 faces in a certain solid object. Find the number of vertices of it.

(2 marks)