Richmond College 2018 First Term Test – Grade 8	
Mathematics	Time :- 1 ½ hours
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Answer all the questions

- 1. If a certain solid has 8 vertices and 6 faces. Find the number of straight edges.
- 2. What is the 10th term of the square number pattern starting from one and written in



Find the perimeters of this triangle

Calculate the compliment of 48°

5. Find the HCF of 30 and 40

- 6. Find the LCM of 8 and 12
- 7. Solve the equation 3x+4=16

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8. Find the value of a



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9. "zero is an integer" is that statement true or false

10. Simplify 5(3x-2)

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Write all the regular polygons which are having equilateral triangular faces by considering 5 platonic solids

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12. Find the value of (+3)+(-5) by using the number line

13. Simplify (-3m) x 4n

14. Find the value of (+20) \div (-4)

15. Write this as a decimal number $\frac{8}{25}$

16. Find the value of 102-(25+5) ÷ 6

17. Simplify $\frac{3}{5} + \frac{1}{4}$

18. Write 81 as a power of 3 and moname its base and index

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19. Add 3x-5y and 7x+4y

20. Write 'true" or "false" in front of the suitable statements

(i) Both number patterns 5, 10, 15, 20 and 20, 15, 10,5 are equal.

(ii) The values of terms in a number pattern should have to be different from each othe



- 1. Answer all the questions only (12 Marks for each)
 - a. Write the number pattern of the multiples of 3 starting from 3, Written in the ascending order.
 - b. Is this above terms of the number pattern finite or infinite
 - c. Write general term of the above number pattern
 - d. Find the 15th term of this number pattern
 - e. Which term is 225
 - f. Which term is 225 of the number pattern of multiple of 9, Starting from 9
- \mathscr{L} (i) Draw a number line from (-5) to +5 by using the above number line. Find the value of (-2) (-3)
 - (ii) Find the value by using additive inverse of this numbers
 - (a) (+5) (-3) (b) (-4) – (+5)

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(iii) Find the values of

(a) (+5)+(-2)-(+4)(b) $(-4) \times (+3)$ (c) $\frac{(-5) \times (-6)}{(-3)}$ 3. Given below is a solid which has square shaped base



- (i) What is the name of this solid?
- (ii) When joined square shape base of given shaped two solids together and build a new solid. What is the name of this new solid?
- (iii) By considering (ii) solid,
 - (a) How many vertices are there
 - (b) How many faces are there
 - (c) How many edges are there
- (iv) Write the Euler's relationship to be used to a solid with straight edges
- (v) Show whether value of the (ii) solid is satisfied with Euler's relationship
- 4. There is a rectangular shaped land with 30 m long and 20 m broad. There is a trapezium shaped pond along the broad side of the rectangular shape land



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- (i) Find the perimeter of the rectangular shaped land
- (ii) Find the perimeter of the pond
- (iii) Find the perimeter of the land without pond
- (iv) Find the difference between the walking distance around the rectangular shaped land and remaining part of the land without pond in one walk

Write the Name of the

- (a) Vertex
- (b) Arms

5. (i)

(c) Name of this angle



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- (ii) KL and MN are the straight lines
 - (a) Find the Value of x
 - (b) Find the Value of y
 - (c) Find the Value of z

(d) Name the above angles of x, y, z according to there magnitude

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30⁰

80⁰

6. There are two boxes **x** and **y**

The box "x" contains blue, red and black pens

The box "y" contains twice the number of blue pens, three times of red pens and four times of black pens

- (i) Build up an algebraic expression for the total number of pens in box "x"
- (ii) Build up an algebraic expression for the total number of pens in box "y"
- (iii) 5 pens are taken from "y" box and put them in to "x" box, then ,

(a) Build up an algebraic expression for the number of pens in box " γ "

(b) Build up an algebraic expression for the number of pens in box "x"

- (iv) If there were 3 blue pens, 2 red pens and a black pen in the box "x", Find the total number of pens in the box "y" at the start
- (v) Which colours had similar number of pens in box "y" and how many?
- (vi) At the start which colourd of similar pens were in the box "y" and by which numbers



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