REVISION 3
Section B
[20 marks]
Answer all the equations.

1. a) Determine whether each of the following statements is 'True' or 'False'

    i)   5 is a prime factor of 20   [   ]

    ii)   3 is a prime factor of 29   [   ]
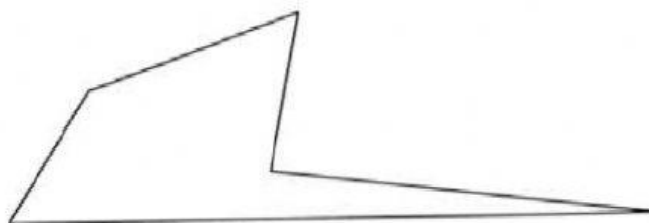
    iii)   4 is a prime factor of 16   [   ]

                                                         [3 marks]

    b) Diagram 10 shows an irregular polygon

Diagram 10

    Determine the number of sides and the name of the polygon.

Number of sides	
name	

                                                         [2 marks]

2.a) Given ξ = {letter in the word ' B A D M I N T O N'} and P = { vowels}. Complete the table in the answer space.

Number of elements in ξ	
Complement of set P	{ }

                                                         [2 marks]

Section C
[60 marks]
Answers all the equations

1. a) Find the value of each of the following.

i) $27 - \sqrt[3]{-8}$

ii) $(-3)^3 + \sqrt[3]{\frac{27}{216}} - \sqrt{0.0081}$

[4 marks]

Answer:
i)   ii)

=   - (   )   = (   )   _____

=

                                    =

b) Solve the following simultaneous linear equation.

$$3g + h = 1$$
$$-2g + 2h = 10$$

[3 marks]

Answer:
3g + h = 1   .... eqn 1
-2g + 2h = 10 ....eqn 2   Substitute g =   in eqn 1

Eqn. 1 x 2
                                    (   ) +   =

    +   =   ...eqn 3
                                              h =

Eqn 2   eqn 3

    +   = ...eqn 2

    +   = ...eqn 3

        g =

2.
a) Solve the following simultaneous linear inequalities

$$3x - 1 > 8 \text{ and } x \geq 2x - 6$$

[3 marks]

Answer:

$>$ $\geq$

x x
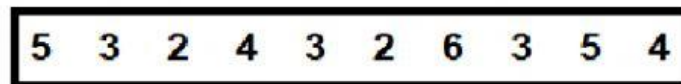
b) Diagram 19 shows the distribution of student's quiz marks.

| 5 | 3 | 2 | 4 | 3 | 2 | 6 | 3 | 5 | 4 |

Diagram 19

Complete the frequency table below:

Quiz mark	Number of students
2	
3	
4	
5	
6	

Determine the quiz mark with the highest frequency