* **ST.MARIE EUGENIE GIRLS SECONDARY SCHOOL**
* **HOLIDAY PACKAGE FORM TWO - 2020**
* **BASIC MATHEMATICS**

**CODE: 041**

**TIME: 21/2 HOURS March, 2020**

* This paper consists of ten (10) compulsory questions
* Attempt all questions and show all the working clearly
* Mathematical tables may be used
* Write your examination number/name one every page of your answer sheet
1. a) Simplify 14 -

b) Arrange the following numbers in descending order

2/3, 6/12, 3/2, 0.35 and 60%

1. a) (i) Increase 320,000 by 16%

 (ii) Convert 1/7 in decimal correct to three decimal place

b) (i) Change 256800cm into km

(ii) Write 260743 correct to three significant figures

1. a) Find the value of x and y in the figure below

b) The exterior angle of a regular polygon is 36 find.

i) The number of sides of the polygon

ii) The sum of the interior angle of the polygon

iii) Give the name of the polygon

1. a) If = 3P – Q (i) Evaluate (5 (ii) Find m if m

b) If X2 + 8x + q = (x + k)2. Find the value of k and q

1. a) Simplify (i) (ii) 27¼ x 3¼ x

b) Simplify by rationalizing the denominator

1. a) Solve – y – 5 = 0 by completing the square.

b) A straight line passes through two points A(-3,6) and B(-6,3). Find the equation of the line AB

1. a) Two triangles below are similar. Calculate the length of

b) From the figure below find the length AD

1. Find the image of a point (1,4) after reflection in the line
2. y-axis
3. x-axis
4. y = x

b) Make ‘a’ the subject of the formula if =

1. a) (i) Factorize 3x2 + 7x – 6 by splitting the middle term

 (ii) Factorize a2 – b2 and use it to find the exact value of (10003)2 – (9997)2

b) Solve by elimination method

1. a) Use mathematical tables to evaluate

b) A motorcycle is bought for 1,200,000/= and sold at a profit of 12% find.

(i) Profit made

(ii) Selling price

**THE END**