

August 2020

# MATHEMATICS 1

Answer nine questions in all: all the questions in section A and four questions from section B. Answers to questions in section B should be supported by two decimal places.

Graph paper are inserted into the answer booklet for your use in the examination.

The use of non-programmable, silent and standard calculators are allowed unless otherwise stated.

## SECTION A (40 Marks)

Answer all questions from this section.  
All questions carry equal marks.

- a) Two years ago a woman was 7 times as old as her daughter, but in 3 years' time she would be 3 times as old as the girl. How old are they now?

b) Simplify  $(1 - \sqrt{3})(\frac{1}{2} + \sqrt{3})$ , leaving your answer in the form  $p + q\sqrt{3}$ .
- a) The diagonals of a rhombus are 12cm and 16cm. Calculate the perimeter of the rhombus.

b) The hypotenuse of a right angle triangle is 13cm. If one other side of the triangle is 5cm shorter than the hypotenuse, calculate the third side of the triangle.
- a) Draw the multiplication table on the 9 × 9 grid below.

b) From your table, calculate:  
(i)  $(3 \otimes 5) \otimes (5 \otimes 9)$   
(ii)  $(5 \otimes 9) \otimes (7 \otimes 9)$
- a) Given that  $P = \frac{x^2 - y^2}{x^2 + y^2}$ .

(i) express  $p$  in its simplest form.

(ii) find the value of  $p$  if  $x = -4$  and  $y = -6$ .
- a) Solve the simultaneous equation.

$$2p - 3q = 4$$

$$3p + 2q = 9$$

b) If  $223_x = 87$ , find  $x$ .

## SECTION B (20 Marks)

Answer four questions from this section.  
All questions carry equal marks.

- a) The distance from a rectangle is 12cm. The ratio of the length of the side to its width is 3:2. Calculate the dimensions of the side.

b) The cost of an electrical gadget and the cost of a plumbing service vary in the ratio 4:3. This year, each cost was reduced by 40% and the total cost decreased by 75%. Assuming the initial cost of the electrical gadget is the same as that of the plumbing service. Check, calculate the value of  $p$  and  $q$ .
- a) Copy and complete the following table for the relation  $y = 2^x$  for  $x = 0, 1, 2, 3, 4, 5$ .

$x$	0	1	2	3	4	5
$y$						

b) Using a scale of 2cm to represent 1 unit on both axes, draw the graph of the relation  $y = 2^x - 5x + 3$ .

c) From the graph, find:  
(i) The truth set of  $x^2 - 5x + 3 = 0$   
(ii) The least point on the graph of the relation  $y = 2^x - 5x + 3$   
(iii) The equation of the line of symmetry of the equation  $y = 2^x - 5x + 3$ .
- a) A school has 36 vacancies for teachers, out of which 22 are mathematics and 14 for East Asia. Of these vacancies 1/3 are mathematics, 1/3 for both mathematics and East Asia only. Venn diagram, find the number of teachers who teach both subjects.  
(i) All three subjects.  
(ii) East Asia only.  
(iii) English Language and mathematics.

b) Solve for  $x$ , if  $223_x = 125$ .

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**M Mark**



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