

Class : \_\_\_\_\_

Name : \_\_\_\_\_ ( )

Full Mark : 100

- Answer ALL questions.  
 ➤ Show your working steps clearly.  
 ➤ The diagrams in this paper are *not* necessarily drawn to scale.  
 ➤ **Complete Questions 6(a) and 7(a)** in this question paper and **hand in** the question paper together with your answer book at the end of the examination.

1. Calculate (a)  $2 + 3(-2) + (-9)$ , (b)  $\frac{\frac{2}{3} - 1\frac{1}{2}}{2 - \left(-\frac{1}{2}\right)}$ . (8 marks)

2. Simplify (a)  $5y - 3(y - 1)$ , (b)  $a - \frac{2 + 3a}{5}$ . (7 marks)

3. Solve (a)  $3 - 4x = 2x - 4$ , (b)  $\frac{1}{4}x - 1 = \frac{2}{3}x$ . (7 marks)

4. Given that  $p - 2q^2 = 4r$ . Find  $p$  if  $q = -3$  and  $r = \frac{1}{2}$ . (5 marks)

5. (a) Find the sum of the next four prime numbers greater than 5.  
 (b) Subtract the sum in (a) from the product of 8 and 9, and the result is then divided by 4, find the quotient. (8 marks)

6. In Figure 1,  $ABCD$  is a quadrilateral where  $\angle ADC = 90^\circ$ .

- (a) Draw all diagonals of  $ABCD$  in Figure 1.  
 (b) (i) Name one acute angle.  
 (ii) Name one obtuse angle.  
 (c) (i) Name one scalene triangle.  
 (ii) Name one right-angled triangle.

(6 marks)

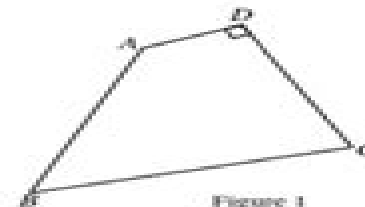


Figure 1

7. In  $\triangle ABC$ ,  $AB = 4$  cm,  $BC = 3$  cm and  $\angle ABC = 60^\circ$ .

- (a) Construct  $\triangle ABC$  in Figure 2.  
 (b) Measure and write down the sizes of  $\angle BAC$  in the figure, correct your answer to the nearest degree.  
 (c) According to the size of its angles, what is the type of  $\triangle ABC$ ? Explain your answer.

(7 marks)



Figure 2

# Mindset Preparatory Examination 2014 Mathematics Paper1

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Botanga, Kim Nguyen, Bonita London, 2022-10-17 The Louis Stokes Alliances for Minority Participation LSAMP program of the US National Science Foundation has been a primary force for raising the success and graduation of minority students in STEM for 30 years Increasing the number of underrepresented students earning baccalaureate degrees and entering graduate school in STEM is the goal of LSAMP This goal has been nearly achieved through the formation of alliances of degree granting institutions of higher learning varying from community colleges to major research institutions Currently there are 59 alliances including more than 400 institutions LSAMP is responsible for more than 650 000 bachelor s degrees earned by minority students in STEM The papers for this Research Topic should focus on the use of LSAMP activities programs and collaborations to develop pathways to success and graduation of STEM majors from minority groups that underrepresented in STEM These pathways can include any segment from pre college through graduate school Areas of special interest include mentoring research experiences transitions between levels and novel approaches for retention The studies should be research based and rigorous They can be pure research studies curriculum and design or literature reviews but they must be at a cutting edge level and be subject to detailed review and assessment **EXPLORE Math Test**

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