

**GRADE 9 MATHEMATICS  
 NOVEMBER EXAMINATION PAPER 2**

**QUESTION 1**

1.1 Draw a rhombus and indicate all properties in mathematical language. (5)

1.2 Choose the correct answer and write only the LETTER on your answer sheet.

1.2.1 Which of the following statements is NOT true about a kite?

- A. The longer diagonal bisects the shorter diagonal at  $90^\circ$
- B. The shorter diagonal bisects the longer diagonal at  $90^\circ$
- C. Diagonals bisect each other
- D. Diagonals are equal

1.2.2 An isosceles triangle has a top angle of  $70^\circ$ . The individual value of the equal angles will be:

- A.  $60^\circ$
- B.  $55^\circ$
- C.  $70^\circ$
- D.  $65^\circ$

1.2.3 A translation is:

- A. Any horizontal or vertical change in position of a shape.
- B. A mirror image of the original position.
- C. An enlargement of the original shape.
- D. A reduction of the original shape.

1.2.4 What is the length of AC in the figure below:



- A. 16cm
- B. 15cm
- C. 13cm
- D. 5cm

1.2.5 A point on a shape has coordinates  $(-2; 3)$ , what would the new coordinates be after a  $y' = -x$  reflection

- A.  $(3; -2)$
- B.  $(2; 3)$
- C.  $(-3; 2)$
- D.  $(3; 2)$

(9)

(10)

**QUESTION 2: GEOMETRY**

Use the following structure to answer this question:

Statement:	Reason:
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2.1 In the diagram below  $\angle ASE = 65^\circ$  and  $\angle DCF = 32^\circ$



2.1.1 Calculate the size of  $\angle BAC$ . Give reasons and show your calculations.

(3)

# Gauteng Maths For Grade9 Memo November

**Rachel S Tattersall**



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