

**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°
- B. The shorter diagonal bisects the longer diagonal at 90°
- C. Diagonals bisect each other
- D. Diagonals are equal

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

- A. 60°
- B. 55°
- C. 70°
- D. 65°

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)

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web api 520 part i 10th edition sizing selection and installation of pressure relieving devices in refineries sizing and selection has been published the standard provides important sizing procedures that give operators the correct specifications when choosing a pressure relieving device for their refinery

sizing selection and installation of pressure relieving devices - Apr 30 2023

web api standard 520 sizing selection and installation of pressure relieving devices part i sizing and selection 3 terms and definitions the terminology for prds that is used in this standard is in general agreement with the definitions given in api 520 part i 4 prd location 4 1 general

api standard 520 - Aug 03 2023

web c520206 this standard covers methods of installation for pressure relief devices prds for equipment that has a maximum allowable working pressure mawp of 15 psig 1 03 barg or 103 kpag or greater