

**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.  $(3; 2)$

(7)

(10)

**QUESTION 2: GEOMETRY**

Use the following structure to answer this question:

Statement:	Reason:
------------	---------

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)

# Mathematics Caps Questions Paper Grade 9 November Paper 2014

**Phyllis Katz**



## **Mathematics Caps Questions Paper Grade 9 November Paper 2014:**

Drawing for Science Education Phyllis Katz, 2017-03-23 This book argues for the essential use of drawing as a tool for science teaching and learning. The authors are working in schools, universities, and continual science learning (CSL) settings around the world. They have written of their experiences using a variety of prompts to encourage people to take pen to paper and draw their thinking, sometimes direct observation and in other instances their memories. The result is a collection of research and essays that offer theory, techniques, outcomes, and models for the reader. Young children have provided evidence of the perceptions that they have accumulated from families and the media before they reach classrooms. Secondary students describe their ideas of chemistry and physics. Teacher educators use drawings to consider the progress of their undergraduates' understanding of science teaching and even their moral/ethical responses to teaching about climate change. Museum visitors have drawn their understanding of the physics of how exhibit sounds are transmitted. A physician explains how the history of drawing has been a critical tool to medical education and doctor/patient communications. Each chapter contains samples, insights, and where applicable, analysis techniques. The chapters in this book should be helpful to researchers and teachers alike across the teaching and learning continuum. The sections are divided by the kinds of activities for which drawing has historically been used in science education: An instance of observation (Audubon, Linnaeus), A process (how plants grow over time, what happens when chemicals combine), Conceptions of what science is and who does it, Images of identity development in science teaching and learning.

**The Compact Edition of the Oxford English Dictionary** Sir James Augustus Henry Murray, 1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933

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web to prepare a temporary mount of human cheek epithelial cells and to study its characteristics like plants the body of all



animals including humans is composed of cells unlike plant cells animal cells do not have cell wall the outermost covering of an animal cell is a cell membrane the cytoplasm nucleus and other

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