



TOTAL: 15 marks

TIME: 20 minutes

NAME: _____

SCHOOL: _____

Grades I am teaching maths to this year: _____

Answer in the spaces provided

QUESTION 1: ANALYSING A QUESTION FROM A GRADE 9 TERM 1 TEST

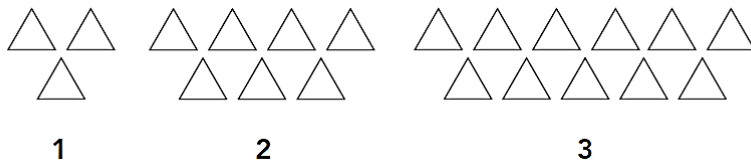
(13 marks)

1.1: Answer the following question from the test.

- a) Give the general rule (the n^{th} term) of the number sequence $\frac{3}{2}; 2; \frac{5}{2}; 3; \dots$ (2)

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- b) A pattern of triangles is given below:



1

2

3

- i) Write down the number of triangles in each pattern. How many triangles form the 4th and 5th patterns of triangles? (1)

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- ii) Give the general rule (the n^{th} term) of the sequence. (1)

.....

- iii) How many triangles will make up the 25th pattern? (1)

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- iv) Which term (pattern number) will have 127 triangles? (2)

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1.2: Analyse the test question and write down the maths topic covered by the question and the cognitive level of each question in the following table (6)

QUESTION	MATHS TOPIC COVERED BY THE QUESTION	COGNITIVE LEVEL OF THE QUESTION
a)		
b i)		
ii)		
iii)		
iv)		

QUESTION 2: TRANSITIONING BETWEEN GRADE 7 AND GRADE 8

(2 marks)

Give two reasons why the Grade 8s might struggle at the beginning of the school year.

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