



Ministry of Education Youth and Information (G6) Booklet

Name: _____ Exam: _____

School Name: _____

Examination: _____

Subject: Mathematics

Candidate's Signature

Blank area for candidate's signature

Sign only within shaded area of this box

DO NOT WRITE/MARK IN THIS AREA

Registration Number

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1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6	6	6
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Absent

School Code

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Paper Code

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7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

GENERAL INSTRUCTIONS

- Place your signature in the box to the left labelled "Candidate's Signature".
- Do **NOT** mark or write outside the signature area.

INSTRUCTIONS TO STUDENTS

Read the instructions below before answering the questions in the booklet:

- This booklet contains 10 questions. Space is provided for you to shade your answer inside the booklet. There is no separate answer sheet.
- ALL** questions must be answered in the test booklet by shading the selected letter-space for the answer.
- Read each question carefully. Based on instructions given for some questions, they may have more than one correct answer.
- For each question, options are given to choose from. Indicate the answer or answers you have selected for each question by shading the corresponding letter-space from the options given.
- If you change any of your answers, erase the first shaded answer completely, then shade in the new answer.

Do not make any stray marks on the answer sheet.

CORRECT: ● INCORRECT: ☑ ⊗ ○

BOOKLET # ASSIGNED



123456701

Mathematics

Answer ALL questions by shading the circle that matches your answer.

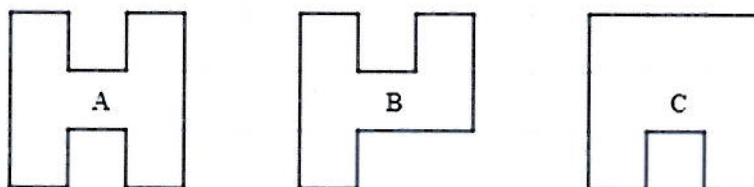
Question 1

If the symbol \blacklozenge is an odd whole number, which of the expressions will always be odd, sometimes be odd or never be odd? Shade the letter that matches your answer.

Expression	Always Odd	Sometimes Odd	Never Odd
a. $\blacklozenge + 5$	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C
b. $\blacklozenge \times 5$	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C
c. $\blacklozenge + 2$	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C
d. $\blacklozenge \times 2$	<input type="radio"/> A	<input type="radio"/> B	<input type="radio"/> C

Question 2

In the grid shown below, there are three pathways labelled A, B and C.

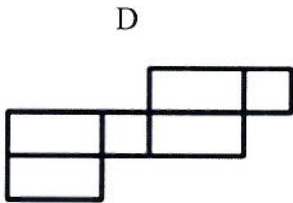
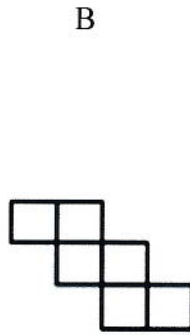
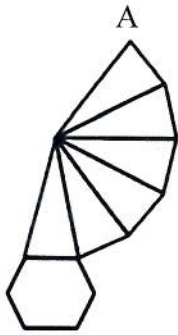


For each of the following statements, indicate whether the statement is true (T) or false (F).

Statement	True	False
Pathway A is longer than Pathway B	<input type="radio"/> T	<input type="radio"/> F
Pathway A is longer than Pathway C	<input type="radio"/> T	<input type="radio"/> F
Pathway B is longer than Pathway C	<input type="radio"/> T	<input type="radio"/> F

Question 3

Classify each net as representing a rectangular prism, a triangular prism, or a pyramid.



Shade the letters for each net that is in the correct column below.

Nets forming a
Rectangular Prism

(A)

(B)

(C)

(D)

(E)

(F)

Nets forming a
Triangular Prism

(A)

(B)

(C)

(D)

(E)

(F)

Nets forming a
Pyramid

(A)

(B)

(C)

(D)

(E)

(F)

Question 4

In a certain herd of goats, all the goats are either black or white. How many female goats in the herd are black?

Which **three** of the following statements together provide additional information that is enough to answer the question?

- (A) The number of goats in the herd
- (B) The number of male goats in the herd
- (C) The number of black male goats in the herd
- (D) The number of white female goats in the herd

Question 5

At a certain competition, each of the four members of the Jamaican track team ran a different distance. The total distance ran by the four team members was 8 kilometres. If the longest distance ran by a member of the team was 3 kilometres, what could be the shortest distance run by a member of the team?

For each of the following, indicate true (T) or false (F) which could be or could not be the shortest distance run.

Shortest distance run	Could be	Could not be
4 kilometres	(T)	(F)
1 kilometre	(T)	(F)
100 metres	(T)	(F)

Question 6

The table below shows the relationship between the number of a term in a pattern and the value of that term. The same rule is used to find the value of the term in each row.

Term Number	Value of Term
1	3
2	5
3	7
4	9
n	?

Based on the pattern shown in the table, the value of the 3rd term is 7. Which of the following expressions could represent the value of the n^{th} term?

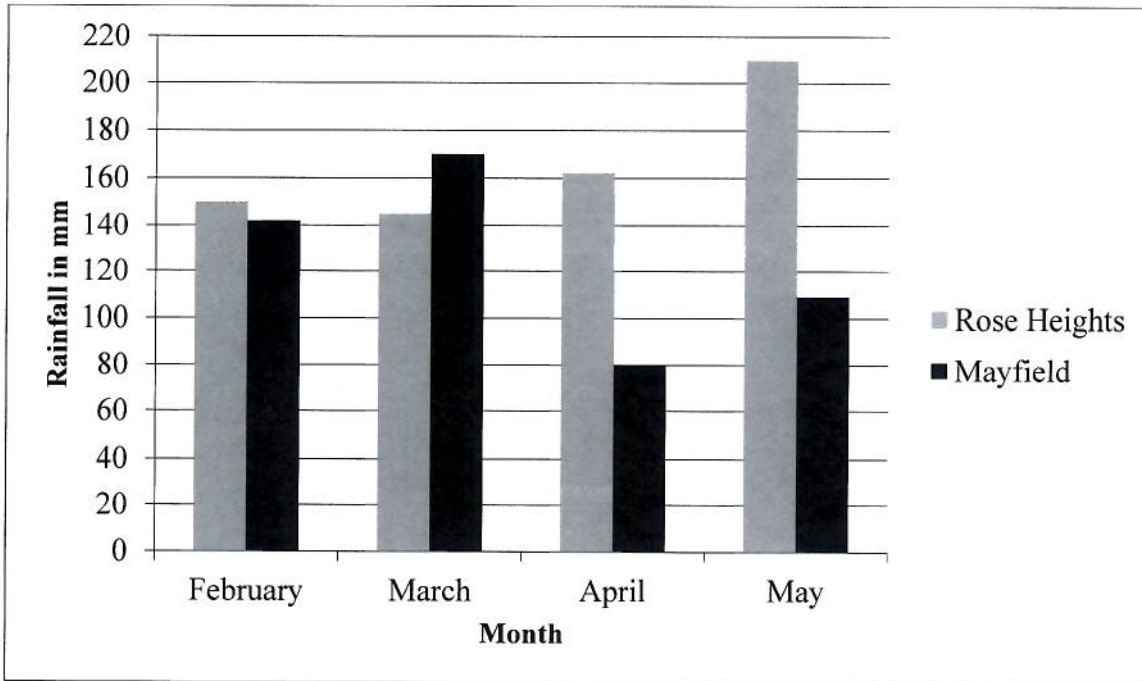
(A) $3n$

(B) $n + 2$

(C) $n + 5$

(D) $2n + 1$

The graph below shows the average monthly rainfall in Rose Heights and Mayfield for 4 months of 2016. The amounts have been rounded to the nearest whole millimetre. Use the graph to answer questions 7 and 8.



Question 7

In which month, was the difference in the average rainfall between the two cities the greatest? Shade the circle beside choice.

- (A) April
 (B) February
 (C) March
 (D) May

Question 8

Which **two** conclusions can be drawn from the given set of data? Shade the circles for the ones that apply.

- The average rainfall in Rose Heights increased significantly between April and May.
- Rose Heights experienced less rainfall than Mayfield each month.
- The average rainfall in Mayfield fluctuated over the four-month period.
- The greatest total average rainfall in both cities happened in March.
- None of the two cities recorded less than 100 mm of rainfall.

Kelly is making some cupcakes for her class party. The number of each flavour of cupcakes is given in the table below. Use this information to answer questions 9 and 10.

Flavour of Cupcake	Number
Chocolate	8
Vanilla	12
Strawberry	4

Question 9

What fraction of the cupcakes is vanilla? Simplify your answer to the lowest terms.

(A) $\frac{1}{6}$

(B) $\frac{1}{4}$

(C) $\frac{1}{3}$

(D) $\frac{1}{2}$

Question 10

Kelly plans to add some more cupcakes

- She will add 2 more chocolate
- She will add more vanilla so that the ratio of chocolate to vanilla is the same as before.

What is the new total number of cupcakes?

(A) 29

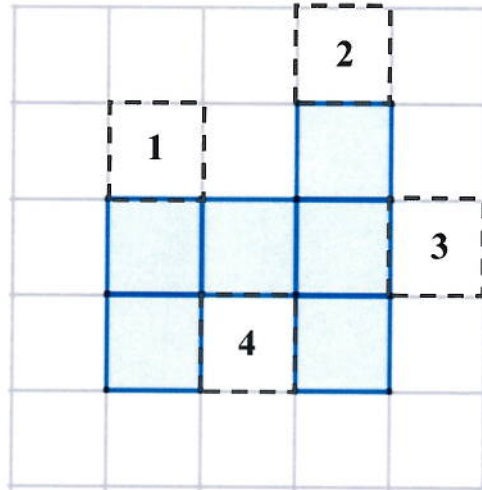
(B) 24

(C) 15

(D) 10

Question 11

Six (6) squares were shaded in a grid to make the figure shown below.



Which **one** square (1, 2, 3 or 4) should be shaded so that the perimeter of the new figure is **less** than that of the original figure?

①

②

③

④