

**9 M E 1 ( A )**

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**Education Bureau**  
**Territory-wide System Assessment 2011**  
**Secondary 3**  
**Mathematics**  
**ANSWER BOOKLET**

**INSTRUCTIONS**

1. Write your School Code, Class and Class Number in the boxes provided on this page.
2. Stick barcode labels in the spaces provided on page 1 and page 3.
3. The time allowed is 65 minutes.
4. Write ALL your answers in the spaces provided in this ANSWER BOOKLET.
5. Do not write in the margins.
6. Unless otherwise specified, numerical answers should be either exact or correct to 3 significant figures.
7. The use of HKEAA approved calculators is permitted.
8. Rough work should be done on the rough work sheet provided.

**School Code**

**Class**

**Class No.**

↑  
Write one capital letter in this box.

**SECTION A: Multiple Choice Questions**

MC Questions - Blacken the circle under the correct answer with an **HB pencil**. For example :

A      B      C      D  
●      ○      ○      ○

1.    A    B    C    D  
      ○   ○   ○   ○

2.    A    B    C    D  
      ○   ○   ○   ○

3.    A    B    C    D  
      ○   ○   ○   ○

4.    A    B    C    D  
      ○   ○   ○   ○

5.    A    B    C    D  
      ○   ○   ○   ○

6.    A    B    C    D  
      ○   ○   ○   ○

7.    A    B    C    D  
      ○   ○   ○   ○

8.    A    B    C    D  
      ○   ○   ○   ○

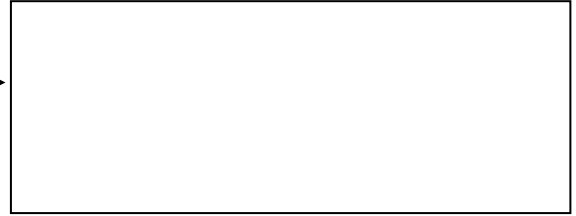
9.    A    B    C    D  
      ○   ○   ○   ○

10.    A    B    C    D  
      ○   ○   ○   ○

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- 11. A B C D
- 12. A B C D
- 13. A B C D
- 14. A B C D
- 15. A B C D
- 16. A B C D
- 17. A B C D
- 18. A B C D
- 19. A B C D
- 20. A B C D

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SECTION B: Write your answers in the spaces provided. Working need not be shown.

21. (i) \_\_\_\_\_

(ii) \_\_\_\_\_

22. \*Circle the correct answers: (i) \*Exact value / Estimated value

(ii) \*Exact value / Estimated value

23. \_\_\_\_\_

24. The sum of the number of red marbles and yellow marbles is \_\_\_\_\_ .

25.  $(2y-3)(y-1) =$  \_\_\_\_\_

26.  $2x-2y+kx-ky =$  \_\_\_\_\_

27.  $x^2+3x-4 =$  \_\_\_\_\_

28.  $x =$  \_\_\_\_\_

29.  $(4+x)(4-x) =$  \_\_\_\_\_

30.  $\frac{3}{2a} - \frac{3}{4a} =$  \_\_\_\_\_

31. i.  $\sqrt{2}$    $\sqrt{3}$

ii.  $\frac{1}{\sqrt{3}}$    $\frac{1}{\sqrt{2}}$

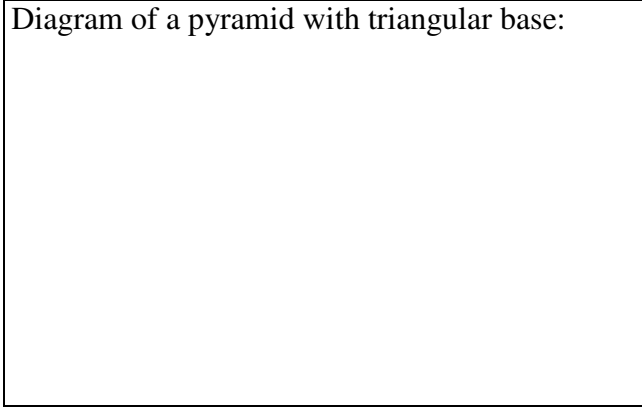
32. \_\_\_\_\_

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33. Diagram of a pyramid with triangular base:



34.  $x =$  \_\_\_\_\_

35. \_\_\_\_\_

36.  $x =$  \_\_\_\_\_

37. The angle between line  $BD$  and plane  $ABFE$  is \_\_\_\_\_.

38. The coordinates of  $A'$  are ( \_\_\_\_\_ , \_\_\_\_\_ ).

39. The coordinates of the mid-point of line segment  $AB$  are ( \_\_\_\_\_ , \_\_\_\_\_ ).

40.  $x =$  \_\_\_\_\_

41. Arithmetic mean of the inflation rates = \_\_\_\_\_ %

Median of the inflation rates = \_\_\_\_\_ %

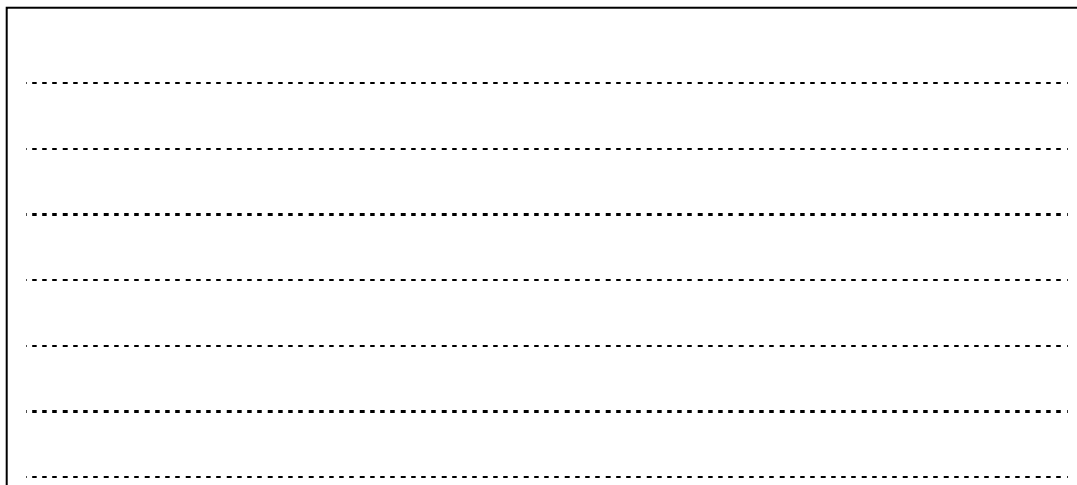
42. The weighted mean mark that David got is \_\_\_\_\_.

43. The empirical probability that Paul predicted correctly is \_\_\_\_\_.

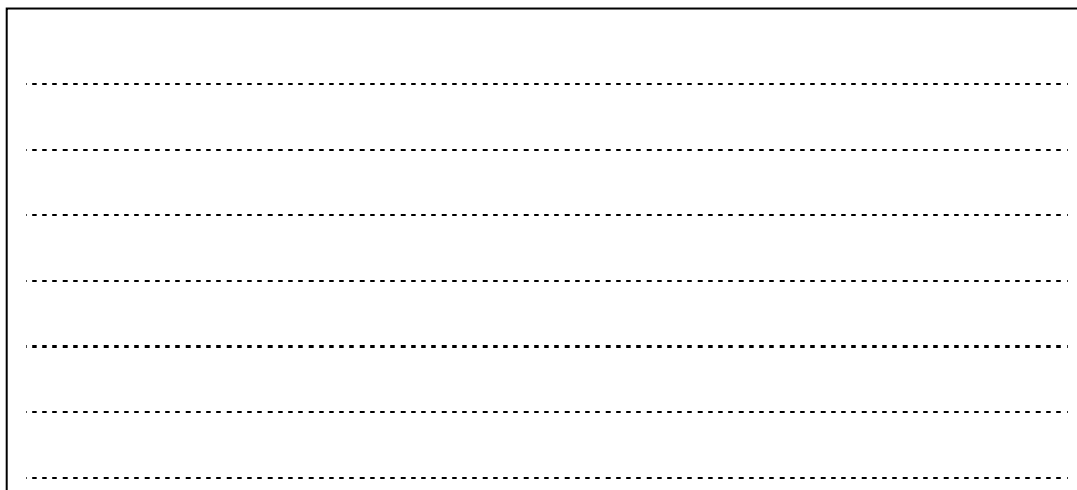
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SECTION C: Answer in the spaces provided.  
All working and conclusions must be clearly shown.

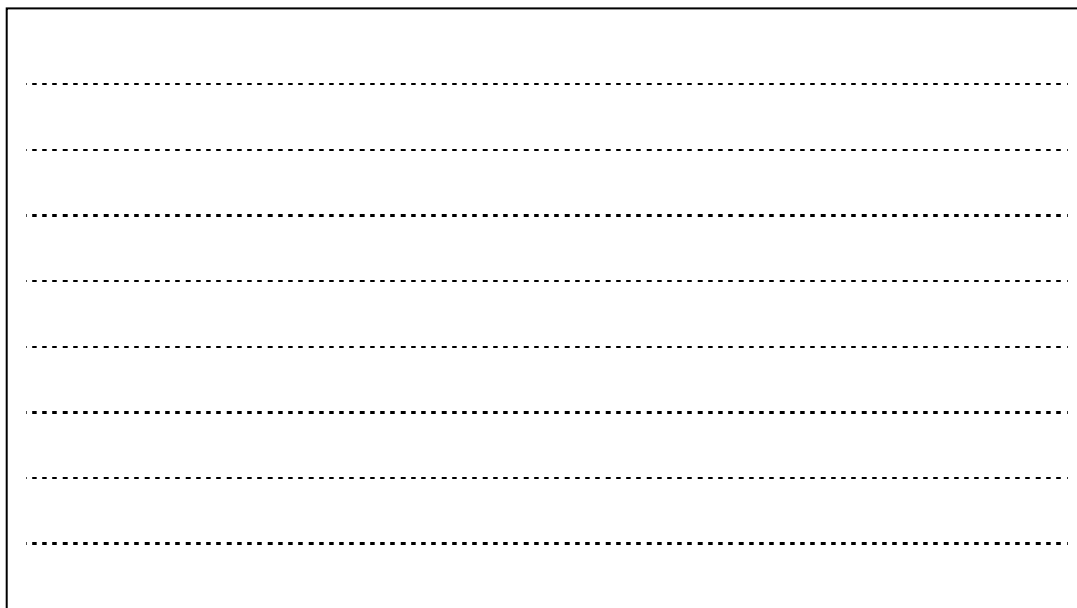
44.



45.



46.



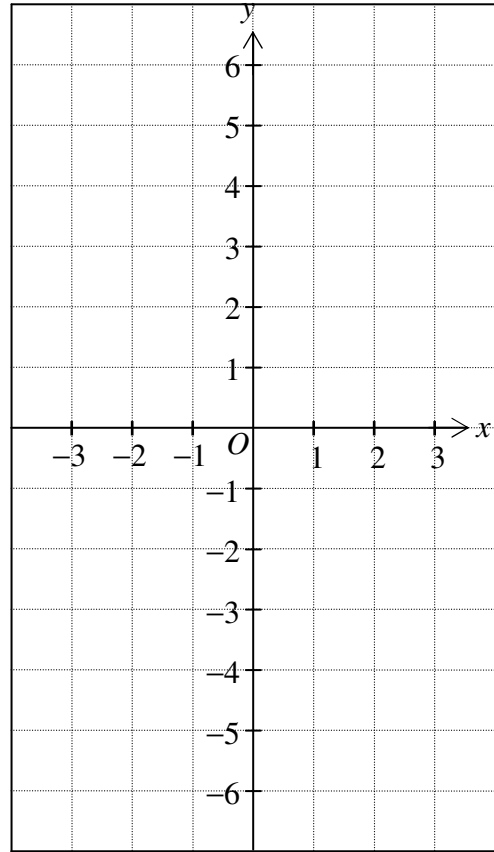
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47.  $y - 3 = 0$

$x$	-2	0	2
$y$		3	



48.

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49.

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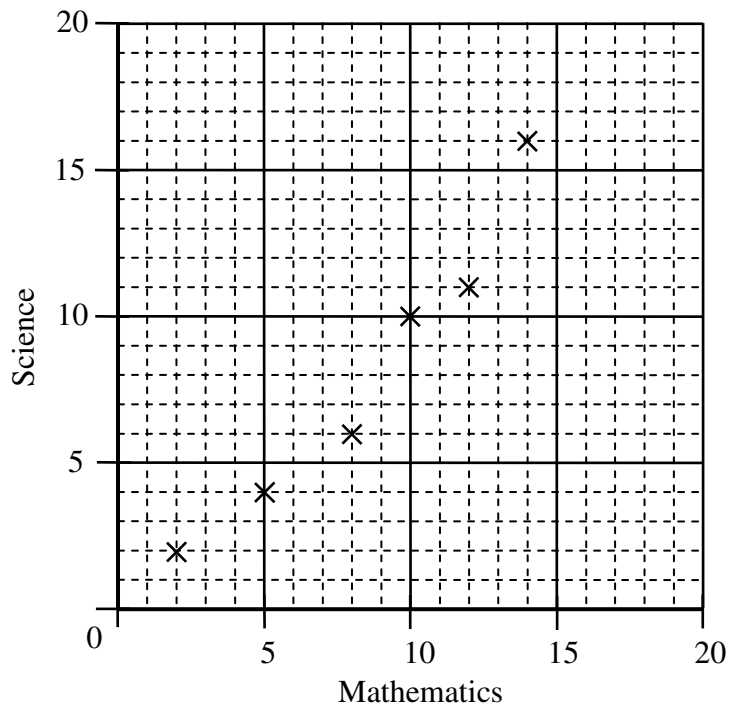
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50. (a) The test marks of 8 students in Mathematics and Science



(b)

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51. (a) \_\_\_\_\_ players are shorter than 160.5 cm.  
(b) \_\_\_\_\_ players whose heights are between 150.5 cm and 155.5 cm.  
(c) James' height should belong to the class interval \_\_\_\_\_ cm — \_\_\_\_\_ cm.

52.

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END OF PAPER

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