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Education Bureau
Territory-wide System Assessment 2009
Secondary 3
Mathematics
ANSWER BOOKLET

INSTRUCTIONS

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

School Code

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Class

3	
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Class No.

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↑
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 :

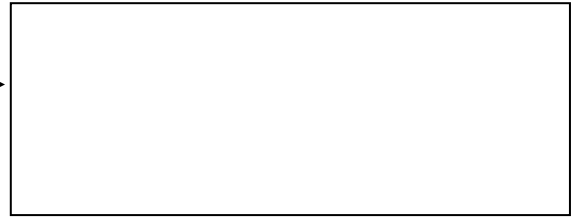
A B C D
● ○ ○ ○

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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Please do not write in the margin.

Please stick the barcode label in the box →



Please do not write in the margin.

- 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

Please do not write in the margin.

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

21. (a) $(-2)(-3) =$ _____

(b) $-2-3 =$ _____

22. $\frac{4+7(-6)}{-2} =$ _____

23. The liftoff weight is _____ kg.

24. $b =$ _____; $c =$ _____.

25. $x =$ _____; $y =$ _____.

26. $x(3x^2 - 2x + 1) =$ _____

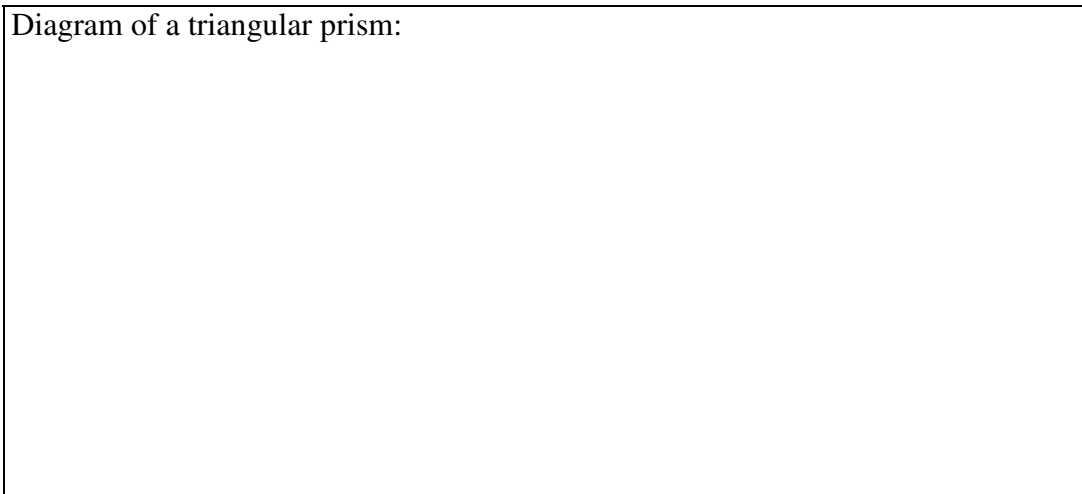
27. $4x^2 + 12x + 9 =$ _____

28. $x =$ _____

29. $(x+3)(x-3) =$ _____

30. The solution of the inequality $-3x + 2 < 11$ is _____.

31. Diagram of a triangular prism:



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32. The order of rotational symmetry is _____.

33. $y =$ _____

34. $x =$ _____

35. One of the planes of reflectional symmetry of the cube is _____.

36. _____

37. $\angle BCD =$ _____

38. $\theta =$ _____ (correct to the nearest 0.1°)

39. The weighted mean of unit prices of stocks is \$ _____.

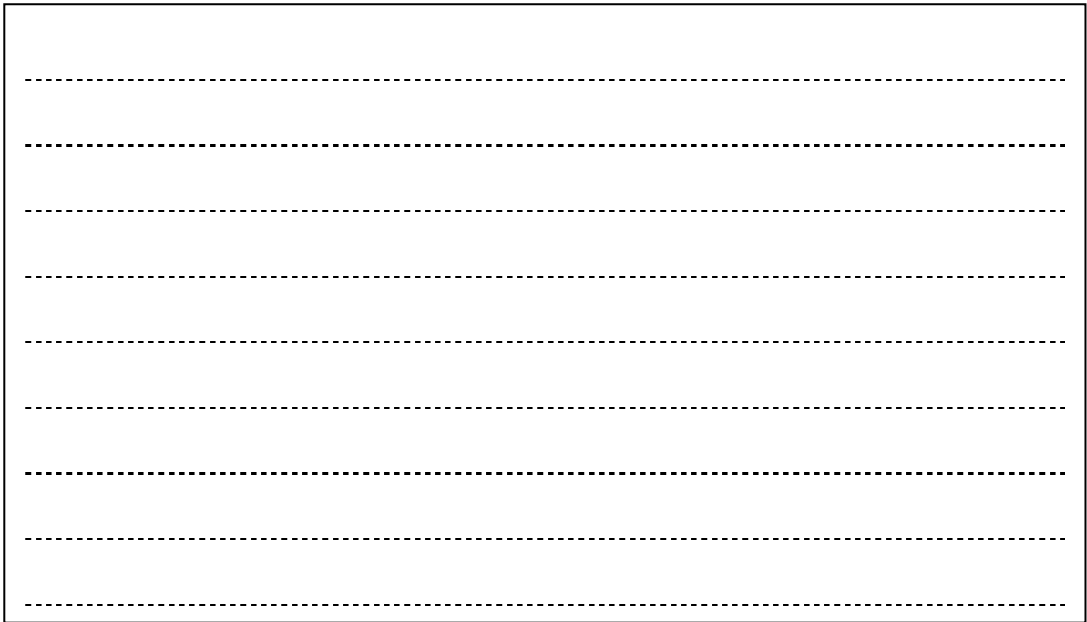
**SECTION C: Answer in the spaces provided.
All working and conclusions must be clearly shown.**

40.

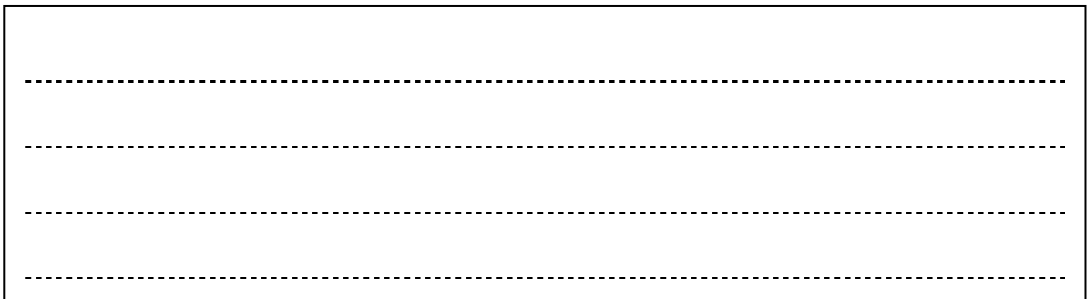
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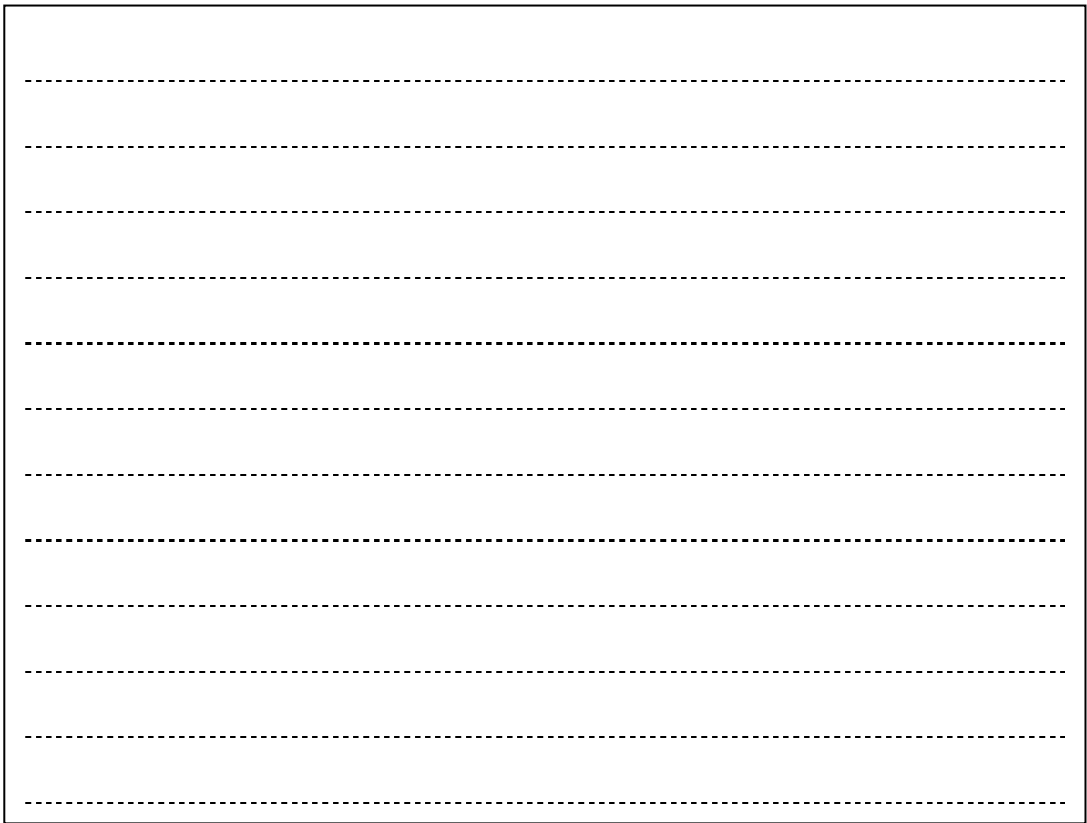
41.



42.



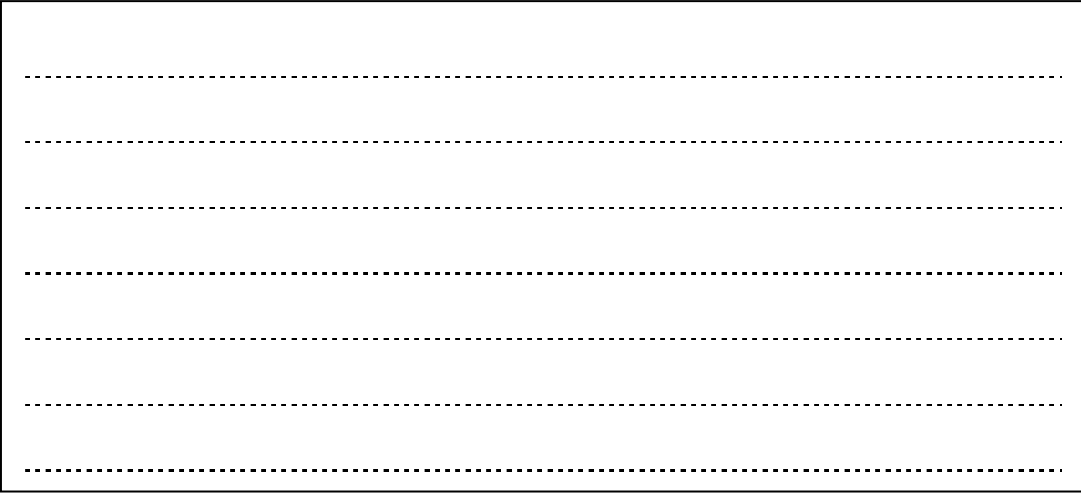
43.



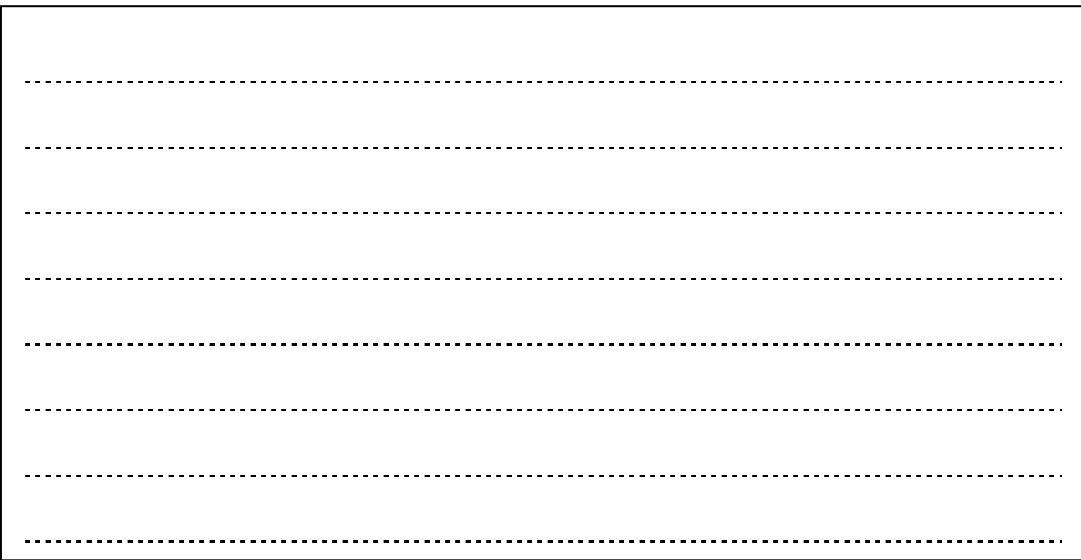
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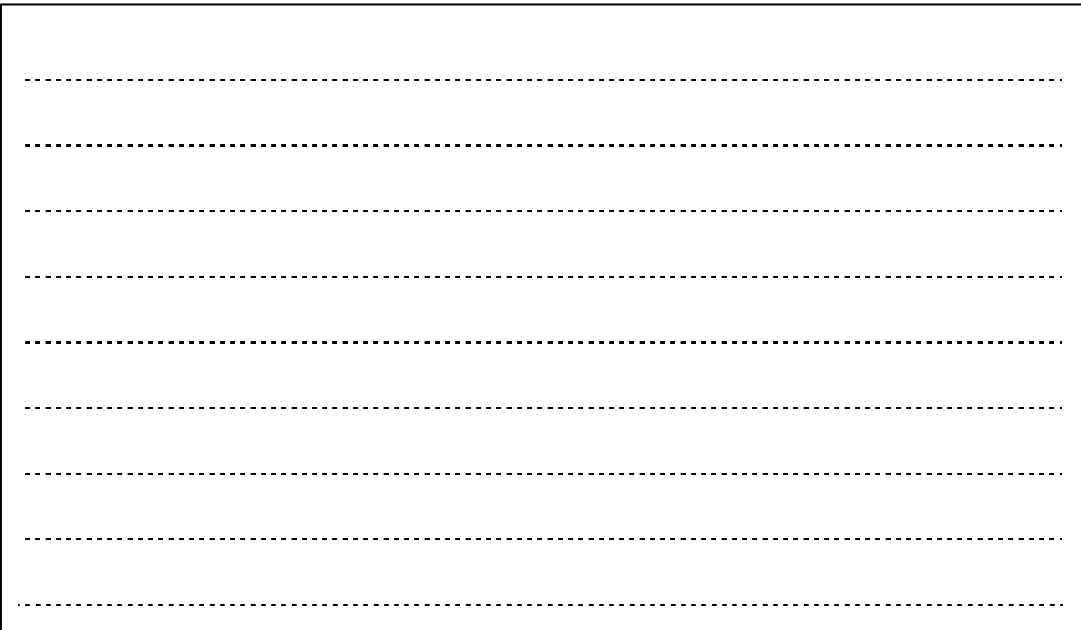
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45.



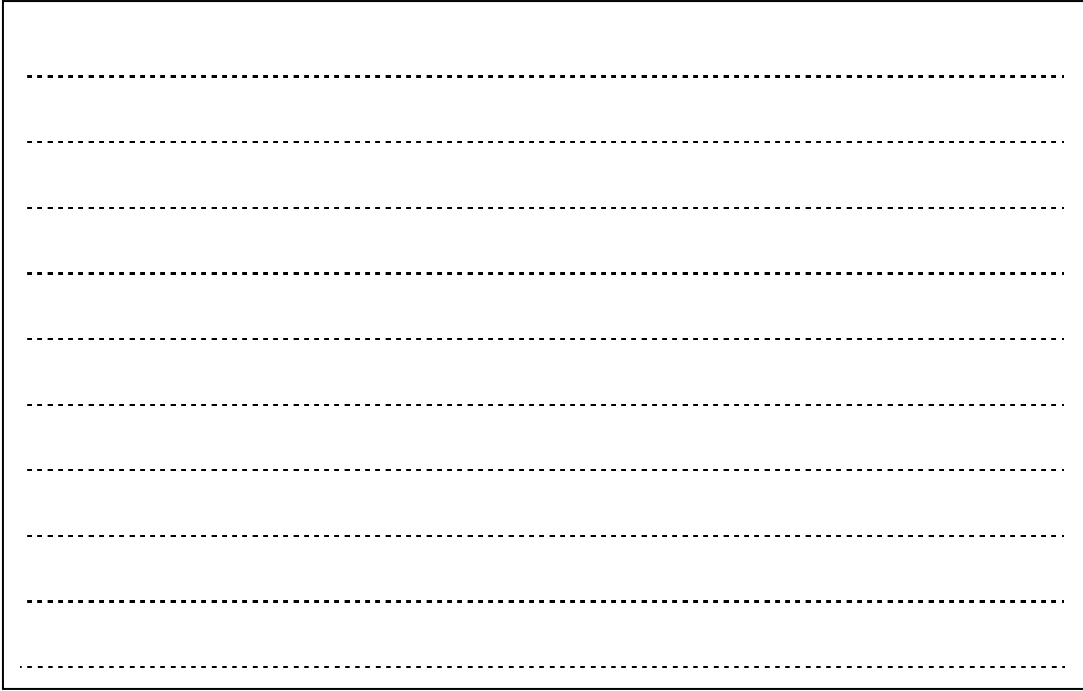
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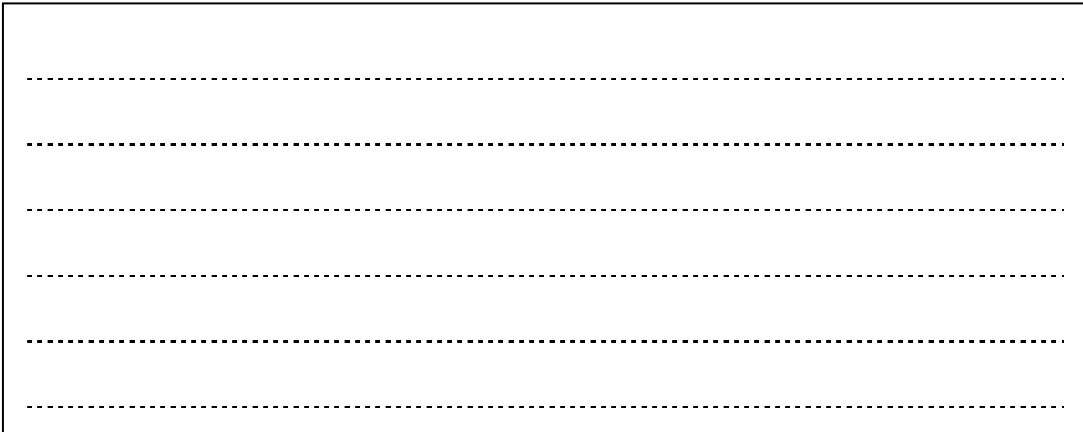
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47.



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