



<b>9</b>	<b>M</b>	<b>E</b>	<b>2</b>	<b>(</b>	<b>A</b>	<b>)</b>
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↑  
Please stick the barcode label in the box

**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**

<b>3</b>	
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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 :

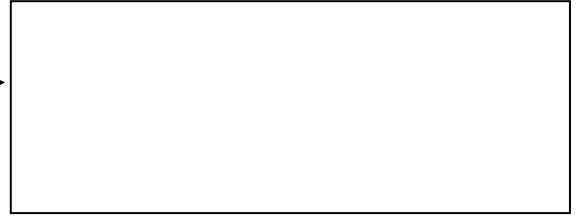
A      B      C      D  
●      ○      ○      ○

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  
     ○   ○   ○   ○

Please do not write in the margin.

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  
○ ○ ○ ○
21. 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.**

22. (i) 4 goals scored : \_\_\_\_\_

(ii) 5 goals lost : \_\_\_\_\_

23. Circle the answer: (i) Exact value / Estimated value

(ii) Exact value / Estimated value

24.  $159.972 =$  \_\_\_\_\_ (correct to 3 significant figures)

25.  $b =$  \_\_\_\_\_;  $c =$  \_\_\_\_\_.

26. The value of the 5<sup>th</sup> term of the sequence is \_\_\_\_\_.

27. When  $(2x + 1)(2x + 3)(x - 1)$  is expanded, the result is \_\_\_\_\_.

28.  $2x^2 - x - 6 =$  \_\_\_\_\_

29.  $x =$  \_\_\_\_\_;  $y =$  \_\_\_\_\_.

30. \_\_\_\_\_

31. The total surface area of the cuboid is \_\_\_\_\_  $\text{cm}^2$ .

32. The angle marked in the figure is \_\_\_\_\_.

33. \_\_\_\_\_

34. (a)  $x =$  \_\_\_\_\_

(b)  $y =$  \_\_\_\_\_

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Please do not write in the margin.

Please do not write in the margin.

35. (a) The slope of  $L_2$  is \_\_\_\_\_.
- (b) The slope of  $L_4$  is \_\_\_\_\_.
36.  $x =$  \_\_\_\_\_
37. The angle between line  $AE$  and horizontal plane  $ABCD$  is \_\_\_\_\_.
38. The polar coordinates of point  $A$  are ( \_\_\_\_\_ , \_\_\_\_\_ ).
39. The probability of getting one head and one tail is \_\_\_\_\_.
40. \_\_\_\_\_ students used more than 70 s to finish the race.

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

41.

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42.

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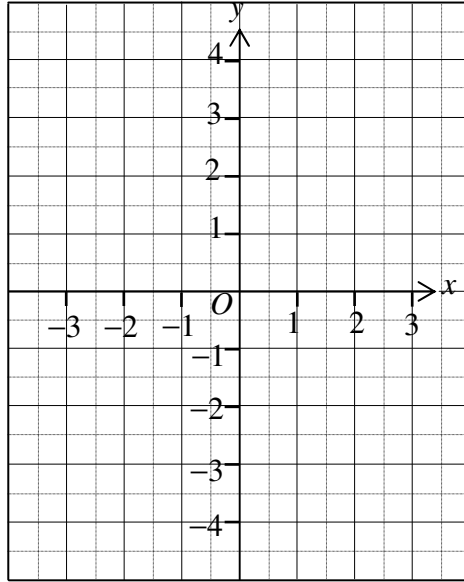
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43.

$x$	-3	0	3
$y$			2



44.

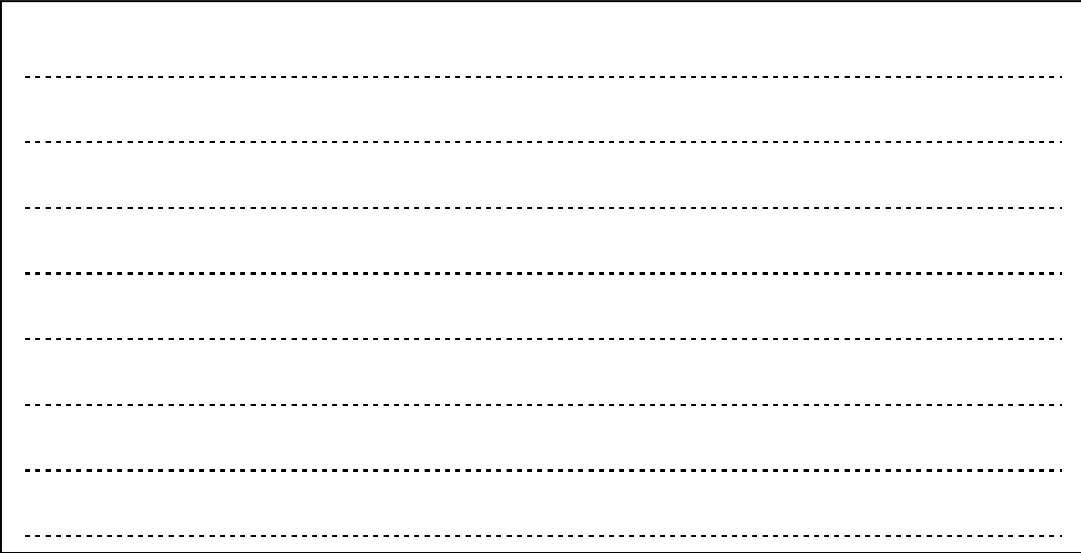
A large rectangular box containing 15 horizontal dashed lines for writing.

Please do not write in the margin.

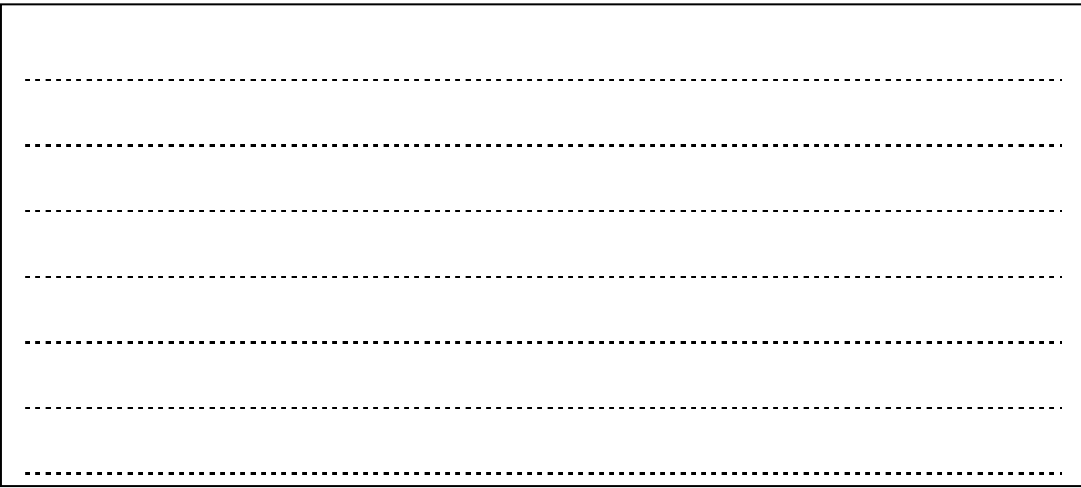
Please do not write in the margin.

Please do not write in the margin.

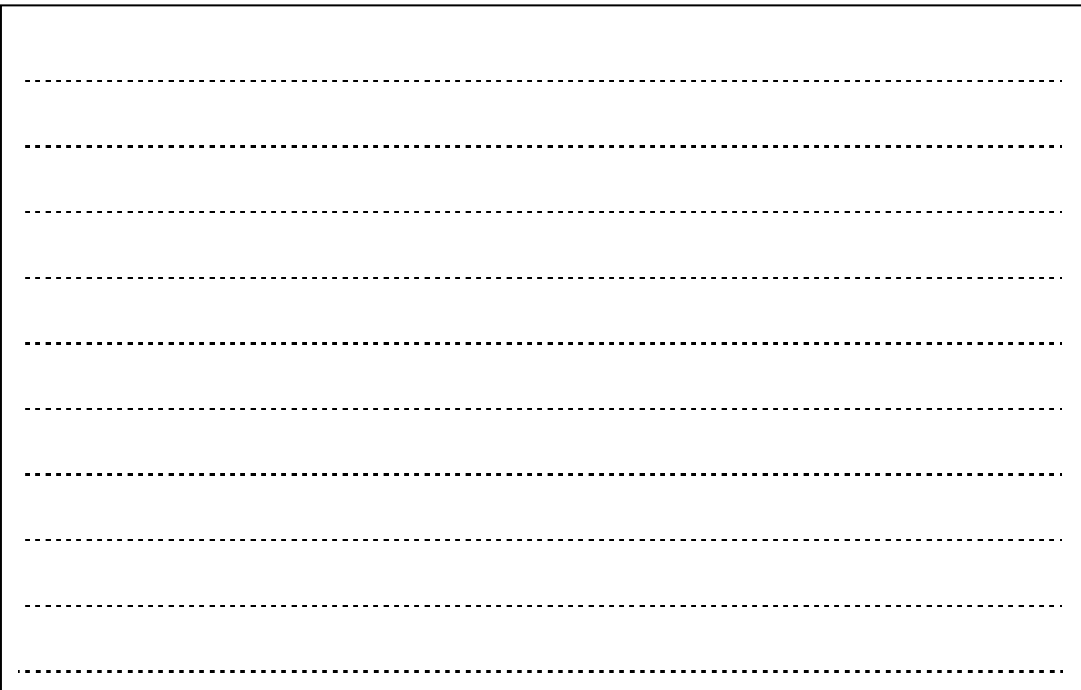
45.



46.



47.



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Please do not write in the margin.

48.


49.

Volunteering hours of 15 students	
Stem (10 hours)	Leaf (1 hour)

Please do not write in the margin.

**END OF PAPER**