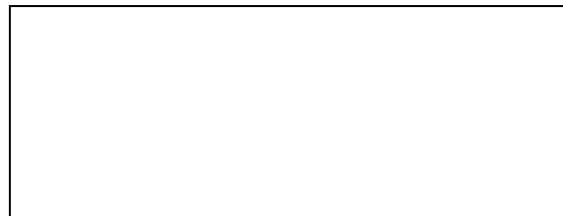




9	M	E	4	(	A	)
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Please stick the barcode label in the box.

Education Bureau
Territory-wide System Assessment 2012
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**

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Class

3	
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**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

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1.

A

B

C

D

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2.

A

B

C

D

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3.

A

B

C

D

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4.

A

B

C

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5.

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6.

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7.

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8.

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9.

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10.

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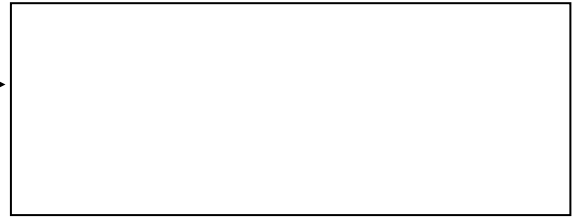
☐

☐

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
○ ○ ○ ○

Please do not write in the margin.

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

21. _____

22. It will take Fanny _____ years to receive an amount of \$6 600.

23. Donald gets \$ _____ .

24. $n =$ _____

25. $x =$ _____

26. $(2y^2 + 5) - (3 - y^2) =$ _____

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

28. $x^2 - x - 12 =$ _____

29. _____

30. $t =$ _____

31. _____

32. The volume of the cone is _____ cm^3 .

33. _____

Please do not write in the margin.

Please do not write in the margin.

Please do not write in the margin.

34.

Cross-section:

35. (a) $x =$ _____

(b) $y =$ _____

36. $x =$ _____

37. Apart from the plane $ADHG$, _____ is **ONE OF THE OTHER** planes of reflectional symmetry containing vertex A .

38. _____

39. The coordinates of point K are (_____ , _____).

40. $x =$ _____

41. The mean number of times 40 members practised in the yoga centre last month is _____ .

42. The required empirical probability is _____ .

Please do not write in the margin.

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

43.

44.

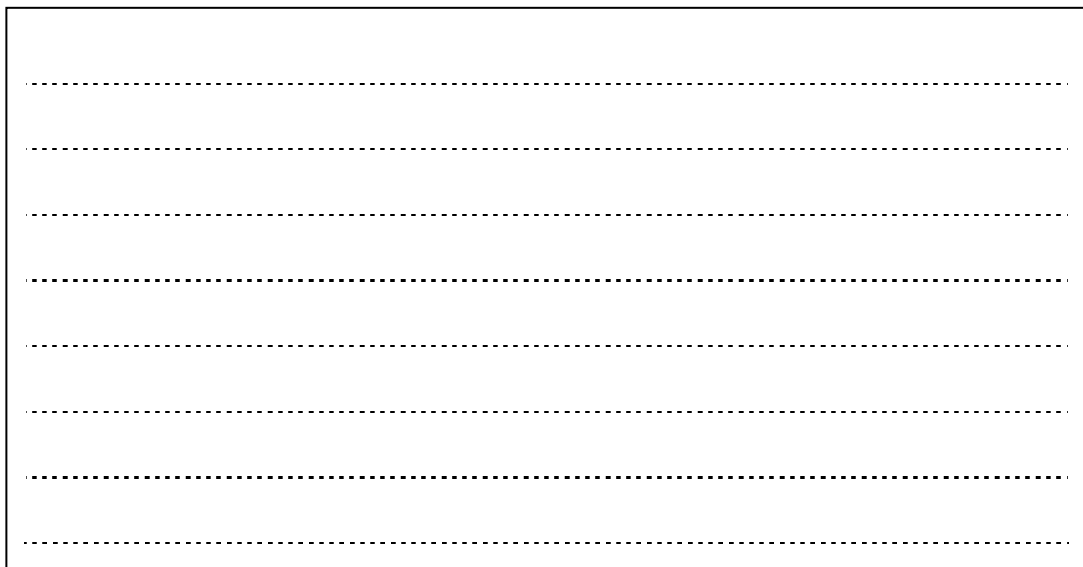
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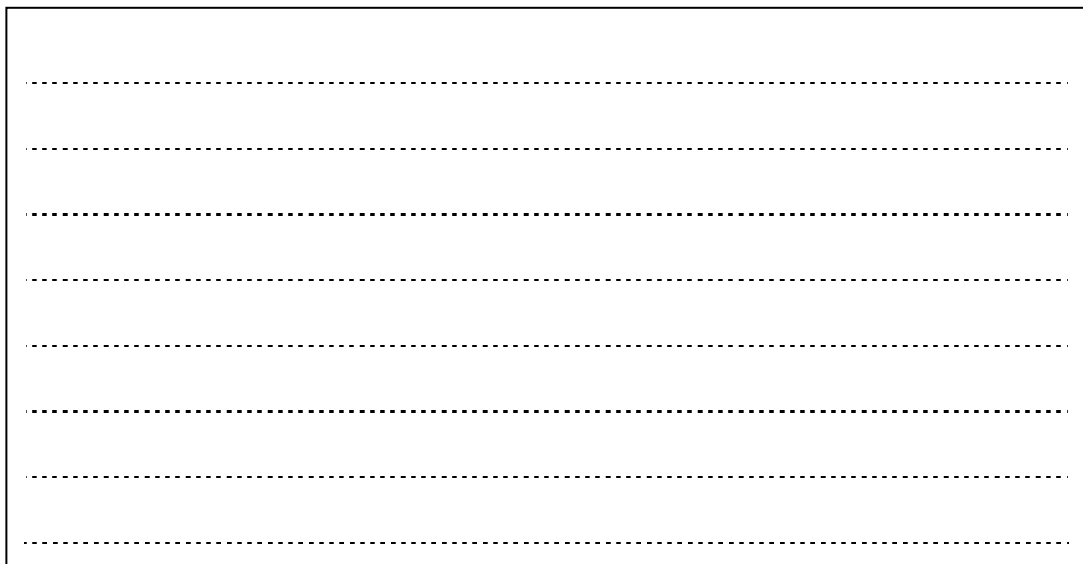
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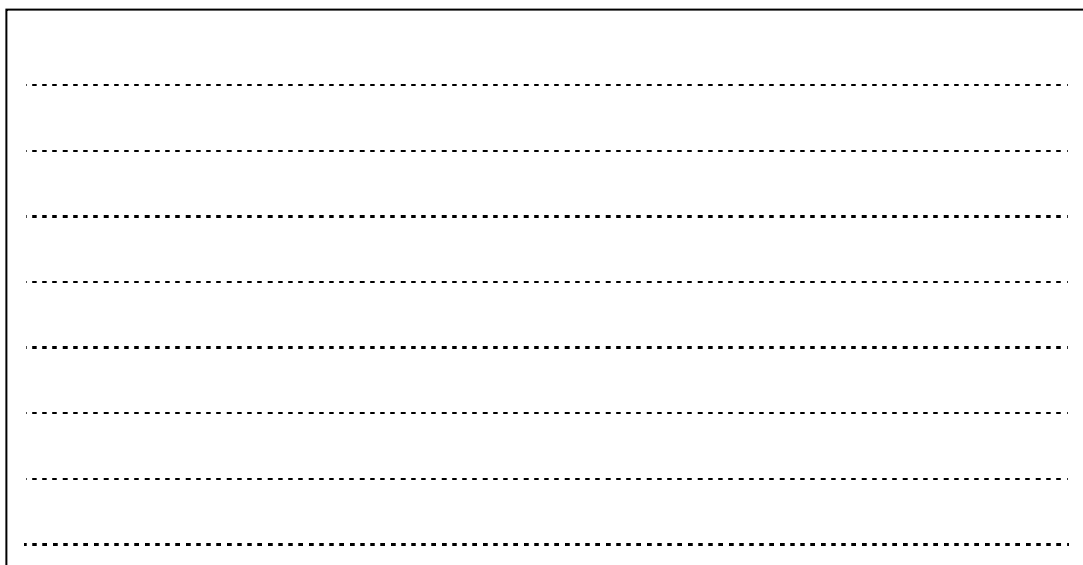
46.



47.



48.



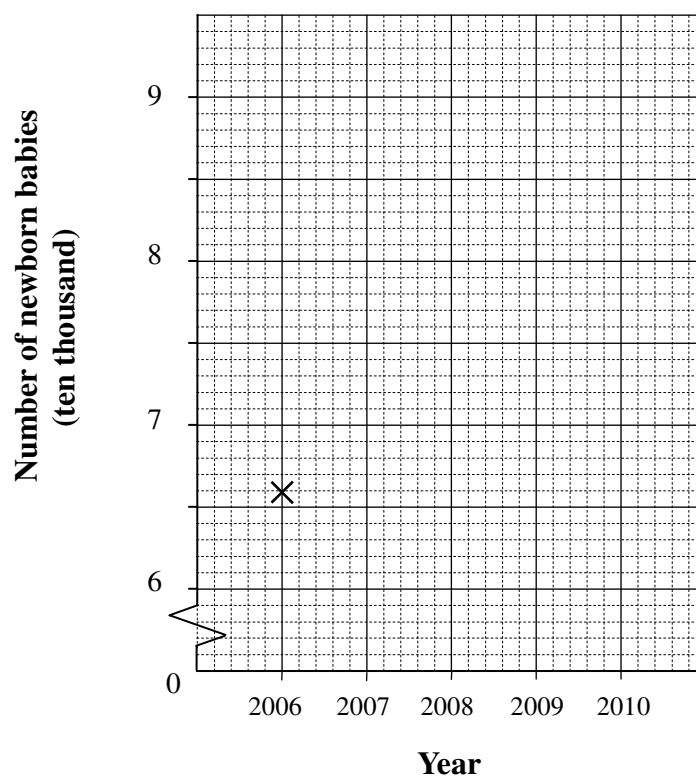
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49.

50.

**Number of newborn babies in
Hong Kong from 2006 to 2010**



51. (a) $x =$ _____

(b) There are _____ students in Secondary 3.

(c) The number of students whose favorite sport is football is _____.

END OF PAPER

Please do not write in the margin.