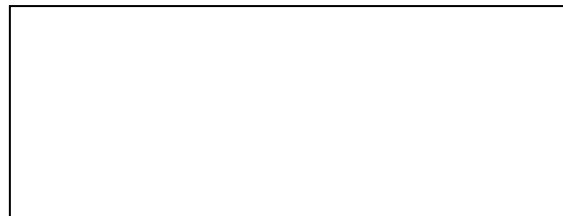




9	M	E	2	(	A	)
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↑
Please stick the barcode label in the box.

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	
---	--

**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

D

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5.

A

B

C

D

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6.

A

B

C

D

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7.

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8.

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B

C

D

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9.

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B

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10.

A

B

C

D

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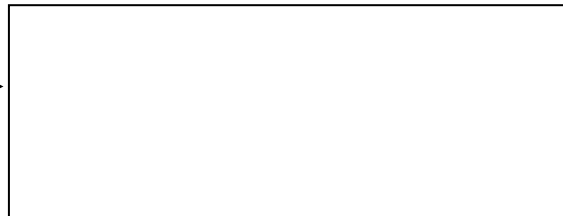
☐

☐

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.

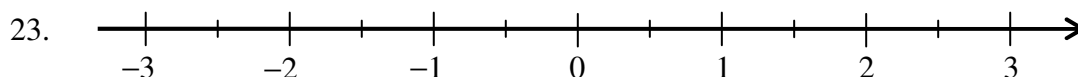
SECTION B: Write your answers in the spaces provided. Working need not be shown.

21. (i) _____ dollars

(ii) _____ dollars

22. (a) _____

(b) _____



24. Age of Calvin after 3 years : Age of Tim after 3 years = _____ : _____

25. $n =$ _____

26. The value of the 3rd term of the sequence is _____.

27. $(x - 2y)(-xy) =$ _____

28. $x^2 - 8x + 16 =$ _____

29. $x =$ _____

30. $(x + 2)^2 =$ _____

31. i. -5.5 -5.7

ii. -0.5 -0.05

32. The total surface area of the cube is _____ cm^2 .

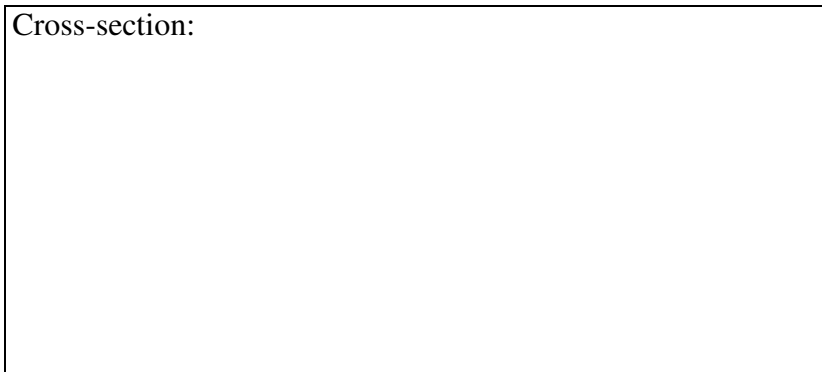
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Please do not write in the margin.

Please do not write in the margin.

33. _____

34. Cross-section:



35. _____

36. $x =$ _____

37. $x =$ _____

38. The projection of AE on the plane $CFED$ is _____ .

39. $\theta =$ _____

40. The gradient of the path AB is _____ .

41. Mean = _____

Median = _____

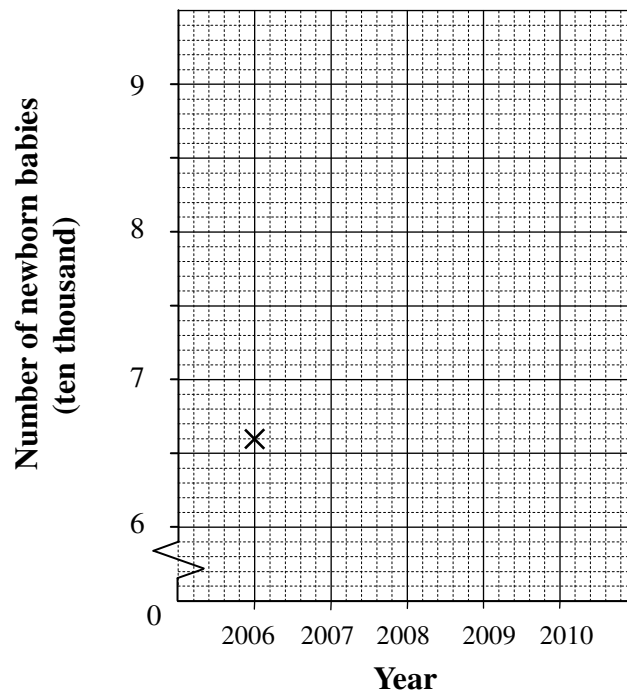
42. The modal class of the time for 50 teams of students to solve all the problems in the Mathematics competition is _____ min – _____ min.

Please do not write in the margin.

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

43.

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



44.

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45.

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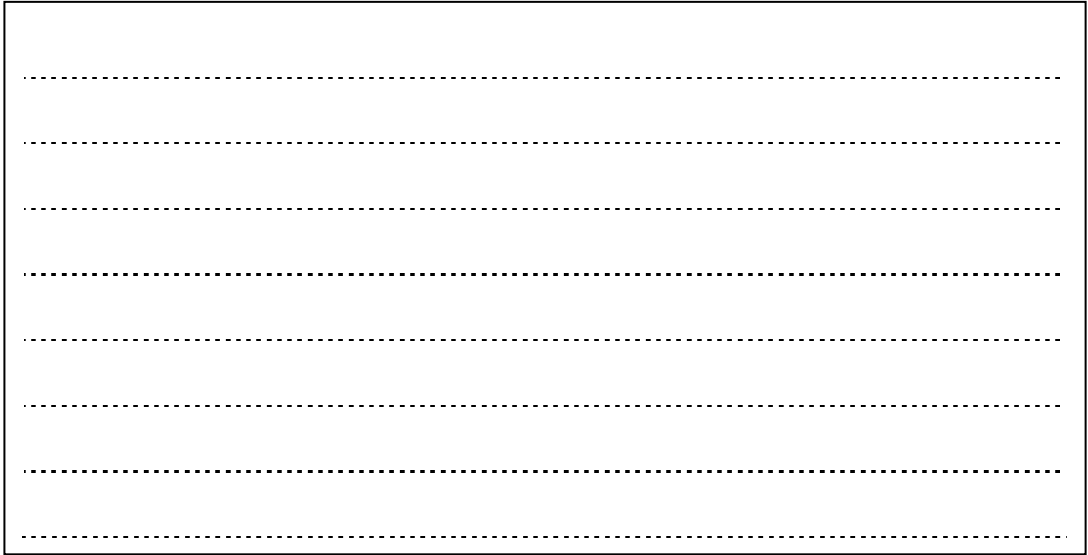
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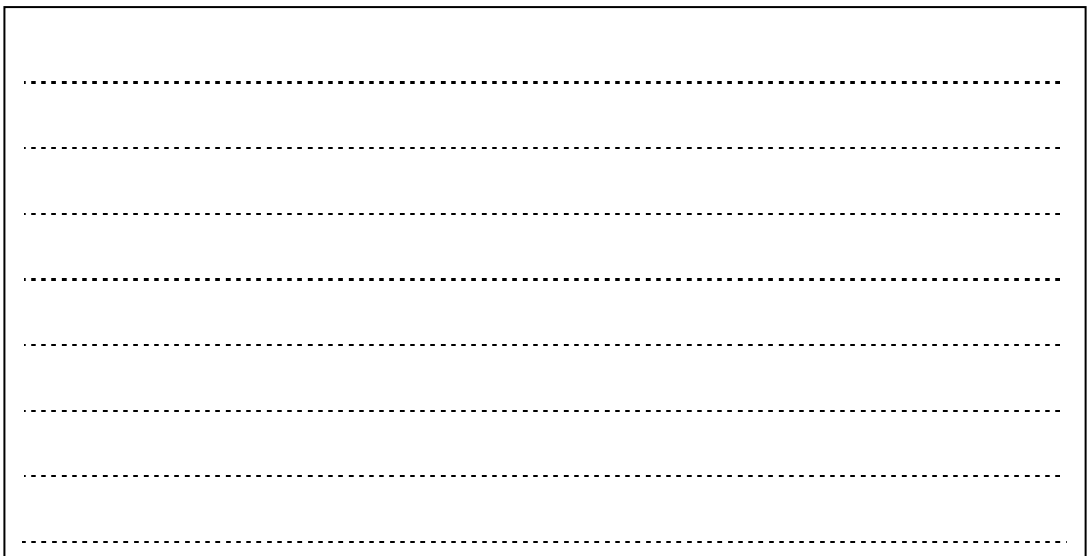
46.

A rectangular box containing ten horizontal dashed lines for handwriting practice.

47.

A rectangular box containing ten horizontal dashed lines for handwriting practice.

48.

A rectangular box containing ten horizontal dashed lines for handwriting practice.

Please do not write in the margin.

49.

50.

Table 1	
Years of service	Frequency
1-10	
11-20	7
21-30	

Table 2	
Years of service	Frequency
1-5	
6-10	7
11-15	
16-20	
21-25	
26-30	

51.

END OF PAPER