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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.
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**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

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1.

A

B

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2.

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3.

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4.

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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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B

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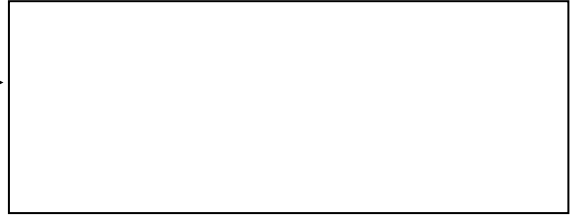
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Please stick the barcode label in the box. —→



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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) _____ dollars

(ii) _____ dollars

22. (a) _____

(b) _____

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

24. _____

25. Figure n is formed by _____ circles.

26. $x(2x^3 + 4x - 1) =$ _____

27. $4y^4 + 8y^2 =$ _____

28. $2x^2 - 7x + 6 =$ _____

29. $(x + 6)(x - 6) =$ _____

30. $t =$ _____

31. i. -5.5 -5.7

ii. -0.5 -0.05

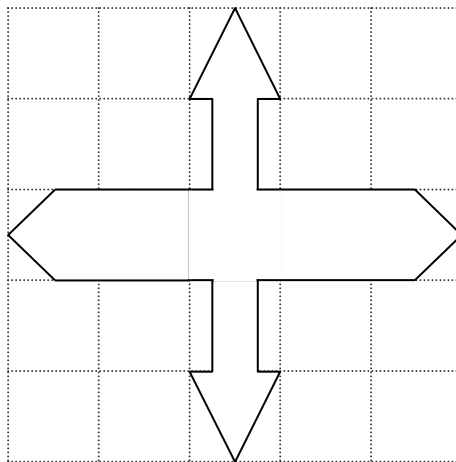
32. The total surface area of the cube is _____ cm^2 .

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

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34.



35. (a) $x =$ _____

(b) $h =$ _____

36. $\angle ABD =$ _____

37. _____

38. The angle between the line VA and the plane $ABCD$ is _____.

39. $x =$ _____

40. The coordinates of E' are (_____ , _____).

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

42. _____

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

43.

44.

45.

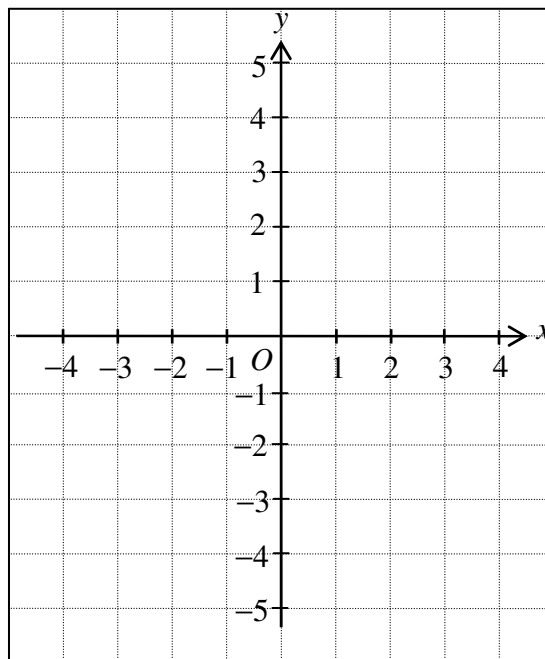
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46. $y = 4$

x	-3	0	3
y	4		



47.

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48.

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49.

50.

51. (a) $x =$ _____
- (b) There are _____ students in Secondary 3.
- (c) The number of students whose favorite sport is football is _____ .

END OF PAPER

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