* 9 M E 2 *

9	M	E	2	(	A	)

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Education Bureau
Territory-wide System Assessment 2011
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				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
●	○	○	○

	A	B	C	D
1.	○	○	○	○
2.	○	○	○	○
3.	○	○	○	○
4.	○	○	○	○
5.	○	○	○	○
6.	○	○	○	○
7.	○	○	○	○
8.	○	○	○	○
9.	○	○	○	○
10.	○	○	○	○

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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
	○	○	○	○

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

21. (i) _____

(ii) _____

22. *Circle the correct answers: (i) *Exact value / Estimated value

(ii) *Exact value / Estimated value

23. The diameter of the cross-section of an optical fibre is about _____ m.

24. *Circle the correct answers: (i) *Ratio / Rate

(ii) *Ratio / Rate

25. _____

26. The number of terms of the polynomial is _____ .

27. $(a^2+b-2)(ab) =$ _____

28. $4-9x^2$ = _____

29. $3x^2+10x+3$ = _____

30. $\frac{3}{2a}-\frac{3}{4a}$ = _____

31. i. $\sqrt{2}$ ☐ $\sqrt{3}$

ii. $\frac{1}{\sqrt{3}}$ ☐ $\frac{1}{\sqrt{2}}$

32. _____

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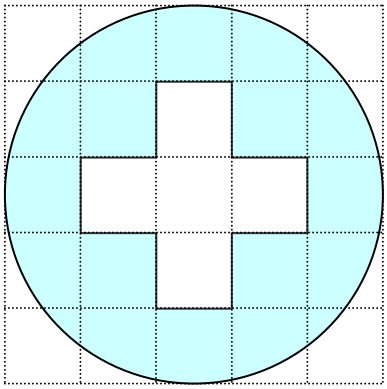
Please do not write in the margin.

33. The radius of the circle is _____ cm.

34. The volume of the sphere is _____ cm^3.

35. 

36. * Circle the correct answer:

(a) * $\triangle PQR \cong \triangle XYZ$ ／ $\triangle PQR \sim \triangle XYZ$

(b) * RHS ／ SAS ／ SSS ／ Ratios of 2 sides, included angles

37. (a) x = _____ (b) AB = _____ cm

38. $\angle BDC$ = _____

39. The coordinates of the mid-point of line segment AB are (_____ , _____).

40. x = _____

41. The polar coordinates of point ***B*** are (_____ , _____).

42. ( ) → ( ) → ( ) → ( )

43. The mean training hours of the members for the last week is _____ .

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Please do not write in the margin.

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

44.

45.

46.

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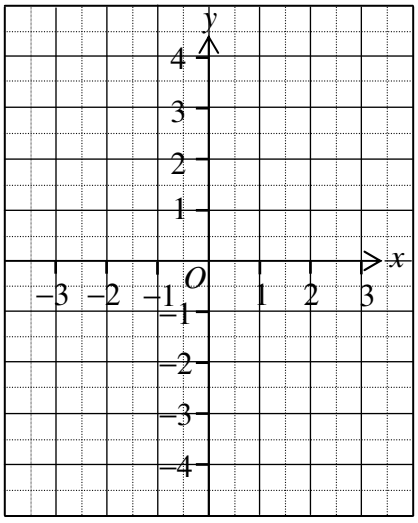
Please do not write in the margin.

47.

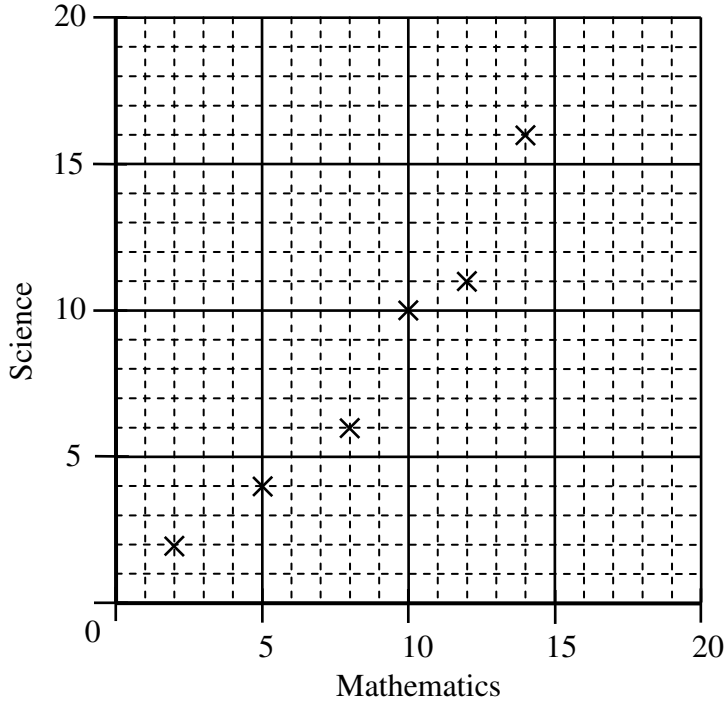
48. $x - y = 1$

x	-2	0	2
y			1



49.

50. (a) The test marks of 8 students in Mathematics and Science



(b)

51. (a) _____ players are shorter than 160.5 cm.

(b) _____ players whose heights are between 150.5 cm and 155.5 cm.

(c) James' height should belong to the class interval _____cm — _____cm.

52.

END OF PAPER