* 9 M E 3 *

| 9 | M | E | 3 |
|---|---|---|---|

Please stick the barcode label in the box

# Education Bureau
# Territory-wide System Assessment 2008
# Secondary 3
# Mathematics
# ANSWER BOOKLET

**INSTRUCTIONS**

1. Stick barcode labels in the spaces provided on Pages 1 and 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 | | | | 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 |
|---|---|---|---|
| ● | ○ | ○ | ○ |

| | | | | |
|---|---|---|---|---|
| 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 |
| | ○ | ○ | ○ | ○ |

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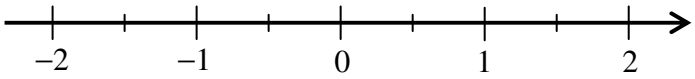
| | | | | |
|---|---|---|---|---|
| 11. | A | B | C | D |
| | ○ | ○ | ○ | ○ |
| 12. | A | B | C | D |
| | ○ | ○ | ○ | ○ |
| 13. | A | B | C | D |
| | ○ | ○ | ○ | ○ |
| 14. | A | B | C | D |
| | ○ | ○ | ○ | ○ |
| 15. | A | B | C | D |
| | ○ | ○ | ○ | ○ |
| 16. | A | B | C | D |
| | ○ | ○ | ○ | ○ |
| 17. | 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. _____

22. 


23. The cost of the camera was $ _____.

24. The number of teachers was _____.

25. The price of each ticket was $ (_____ ).

26. Equation: _____

27. The first term is _____ and the second term is _____.

28. $(m - 2m^2) + ( 2m - 3m^2 ) =$ _____

29. $(y-1)(y-2) =$ _____

30. $ax + 2a + bx + 2b =$ _____

31. $x =$ _____

32. _____

33. $(2x - 5y)(2x + 5y) =$ _____

34. _____

35. _____

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Please do not write in the margin.

36. _____

37. The order of rotational symmetry is _____.

38. $x$ = _____

39. $x$ = _____

40. _____

41. The coordinates of **P** are ( _____ , _____ ).

42. The distance between $A$ and $B$ is _____ units.

43. $\theta$ = _____° (correct to the nearest 0.1°)

44. (a) _____ students chose Science as their project topics.

    (b) _____ students chose Geography as their project topics.

45. The median of exercise times is _____ hours.

46. The mean age is _____.

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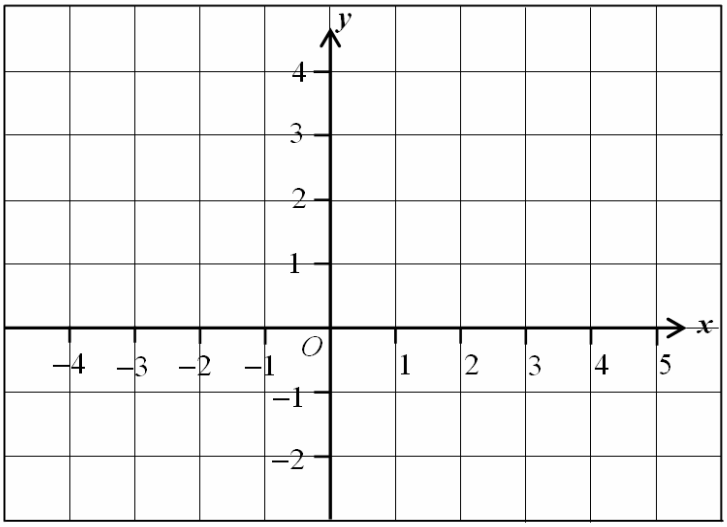
**SECTION C:** **All working must be clearly shown. Write your mathematical expressions, answers and statements/conclusions in the spaces provided.**

47.

48.

| $x$ | –4 | 0 | 4 |
|---|---|---|---|
| $y$ | | | 4 |




49.

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50.

51.(a) (Write down the answer only)

The area of the island is approximately _____ $km^2$.

51.(b)

52.

53.

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54.

55.

56. Table 1

| Time taken (minutes) | Frequency |
|---|---|
| 1 – 10 | |
| 11 – 20 | |
| 21 – 30 | |
| 31 – 40 | |
| 41 – 50 | |
| 51 – 60 | |

Table 2

| Time taken (minutes) | Frequency |
|---|---|
| 1 – 15 | |
| 16 – 30 | |
| 31 – 45 | |
| 46 – 60 | |

**END OF PAPER**

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