* 9 M E 2 *

| 9 | M | E | 2 | ( | A | ) |
|---|---|---|---|---|---|---|

Please stick the barcode label in the box.

# Education Bureau
# Territory-wide System Assessment 2016
# 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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Please stick the barcode label in the box. →

| | A | B | C | D |
|---|---|---|---|---|
| 11. | ○ | ○ | ○ | ○ |
| 12. | ○ | ○ | ○ | ○ |
| 13. | ○ | ○ | ○ | ○ |
| 14. | ○ | ○ | ○ | ○ |
| 15. | ○ | ○ | ○ | ○ |
| 16. | ○ | ○ | ○ | ○ |
| 17. | ○ | ○ | ○ | ○ |
| 18. | ○ | ○ | ○ | ○ |
| 19. | ○ | ○ | ○ | ○ |
| 20. | ○ | ○ | ○ | ○ |

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

21. (i) The time difference is represented by _____ hours.

    (ii) The time difference is represented by _____ hours.

22. _____

23. Amy takes _____ hours to walk 18 km.

24. $x$ = _____

    $y$ = _____

25. The value of the $12^{th}$ term of the sequence is _____ .

26. _____

27. $x$ = _____

28. _____

29. $K$ = _____

30. _____

31. The side length of the cube is _____ cm.

32. _____

33. $x$ = _____

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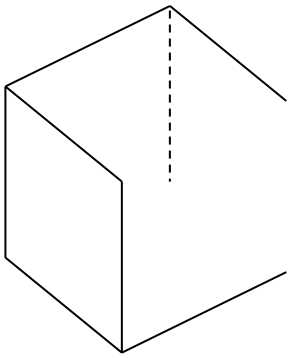
34. Diagram of a cube:



35. The polar coordinates of point $A$ are ( _____ , _____ ).

36. $\theta =$ _____

37. (  ) → (  ) → (  ) → (  )

38. (a) There are _____ sunflowers in the garden.

    (b) The mode of the heights of the sunflowers is _____ cm.

    (c) _____ sunflowers in the garden are over 40 cm in height.

39. The required empirical probability = _____

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

40.

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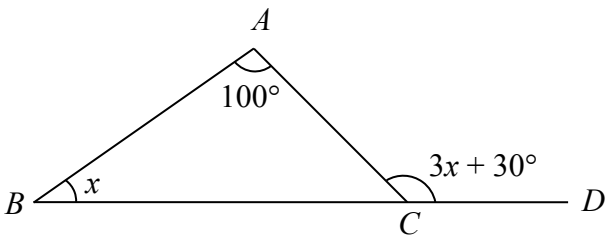
41.

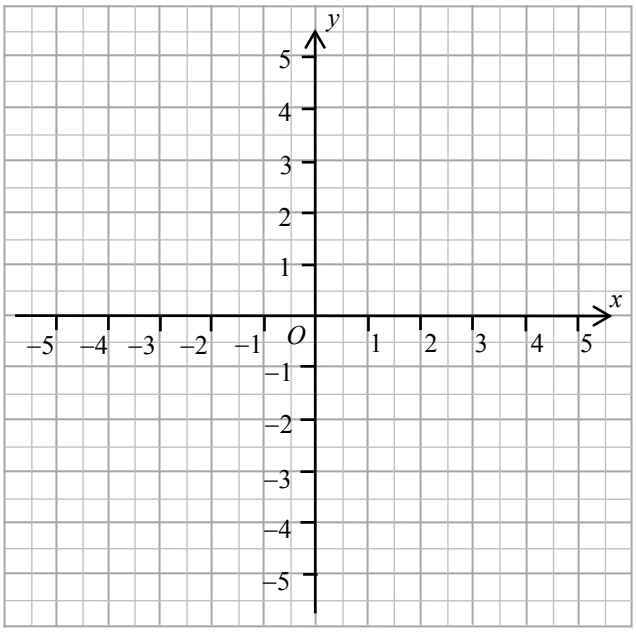
42.

43.



44. $x + 3y - 3 = 0$

| $x$ | $-3$ | 0 | 3 |
|---|---|---|---|
| $y$ | 2 | | |




45.

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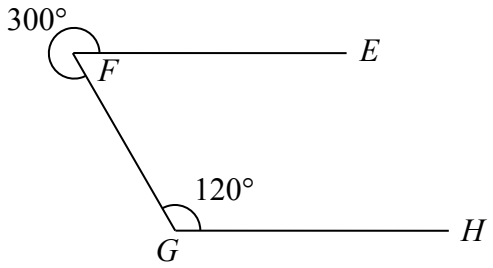
46.




47.

| Table 1 | |
|---|---|
| Time taken (s) | Frequency |
| 51 – 60 | |
| 61 – 70 | 9 |
| 71 – 80 | |

| Table 2 | |
|---|---|
| Time taken (s) | Frequency |
| 51 – 55 | |
| 56 – 60 | 5 |
| 61 – 65 | |
| 66 – 70 | 4 |
| 71 – 75 | |
| 76 – 80 | |

END OF PAPER

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