

9	M	E	4	(	A	)
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Please stick the barcode label in the box.

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**Education Bureau**  
**Territory-wide System Assessment 2016**  
**Secondary 3 Mathematics**  
**ANSWER BOOKLET**

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**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**

<b>3</b>	
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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  
●      ○      ○      ○

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  
      ○   ○   ○   ○

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. \_\_\_\_\_

22. \_\_\_\_\_ kg

23. The number of red marbles : the number of green marbles = \_\_\_\_\_ : \_\_\_\_\_

24.  $a =$  \_\_\_\_\_

25. The constant term of the polynomial  $5y^2 - 4y + 11$  is \_\_\_\_\_ .

26. \_\_\_\_\_

27. \_\_\_\_\_

28. \*Circle the correct answer

\* exact solution / approximate solution

29. \_\_\_\_\_

30. -3.1  -3.2

31. \_\_\_\_\_

32. The order of rotational symmetry is \_\_\_\_\_ .

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33. (a)  $x =$  \_\_\_\_\_

(b)  $y =$  \_\_\_\_\_

34.  $x =$  \_\_\_\_\_

35. The coordinates of  $R'$  are ( \_\_\_\_\_ , \_\_\_\_\_ ).

36. The gradient of the path  $PQ$  is \_\_\_\_\_ .

37. \*Circle the correct answers (i) \* Discrete data / Continuous data

(ii) \* Discrete data / Continuous data

38. The upper quartile is \_\_\_\_\_ minutes.

39. The weighted mean mark of Mary is \_\_\_\_\_ .

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

40.

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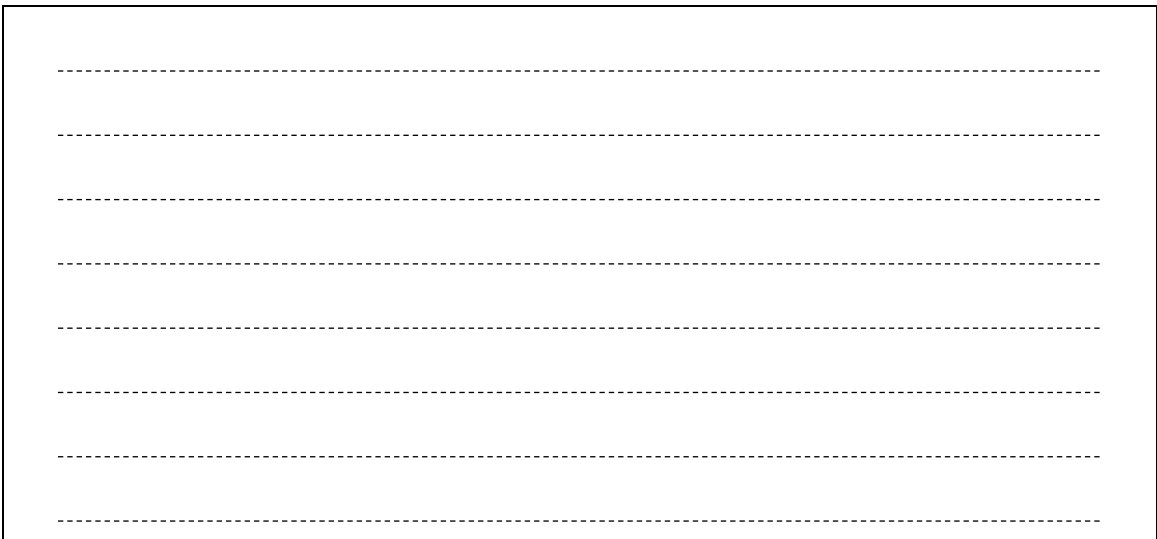
41.



42.



43.



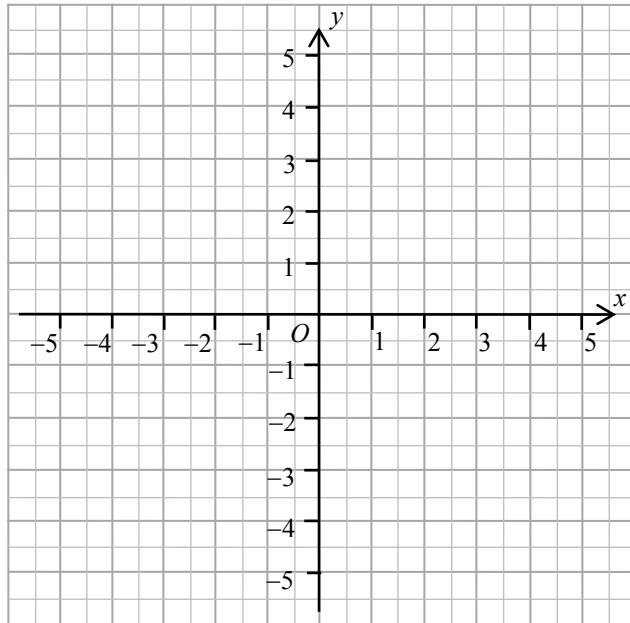
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44.

$$y = -\frac{x}{3} + 1$$

x	-3	0	3
y	2		



45.

(a)

Transportation expenses (\$)	0 – 14	15 – 29	30 – 44	45 – 59
Class mark		22	37	
Frequency	5	18	20	7

(b)

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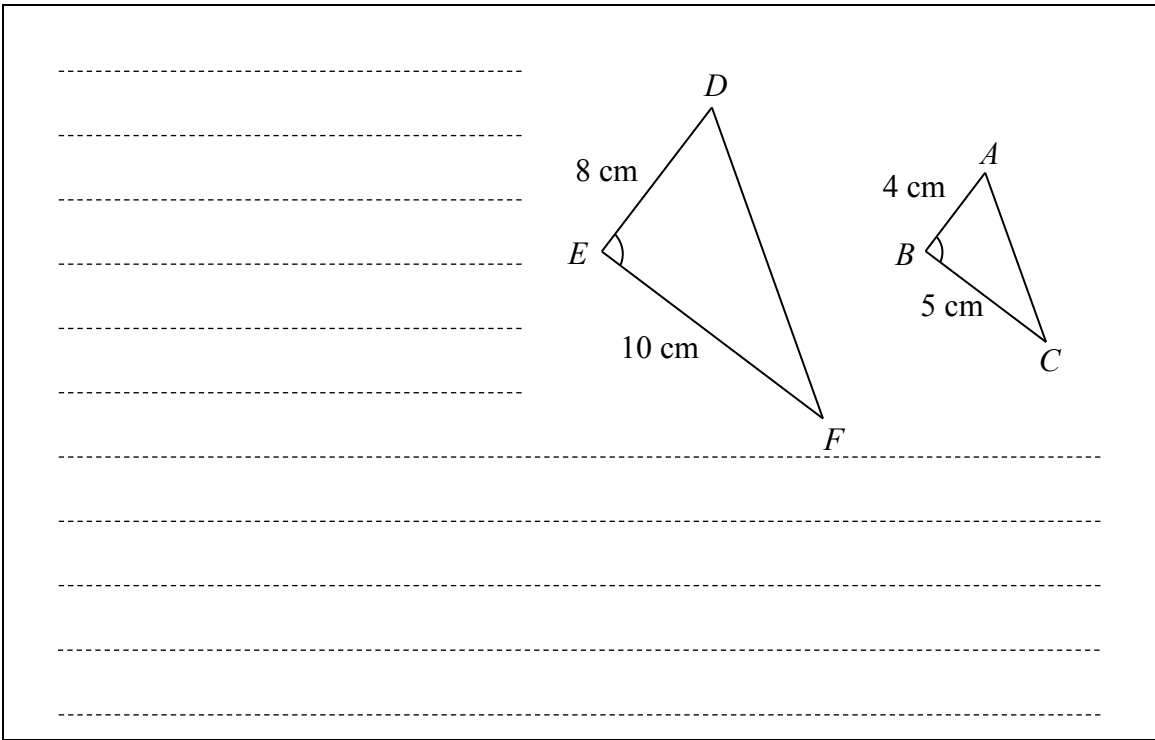
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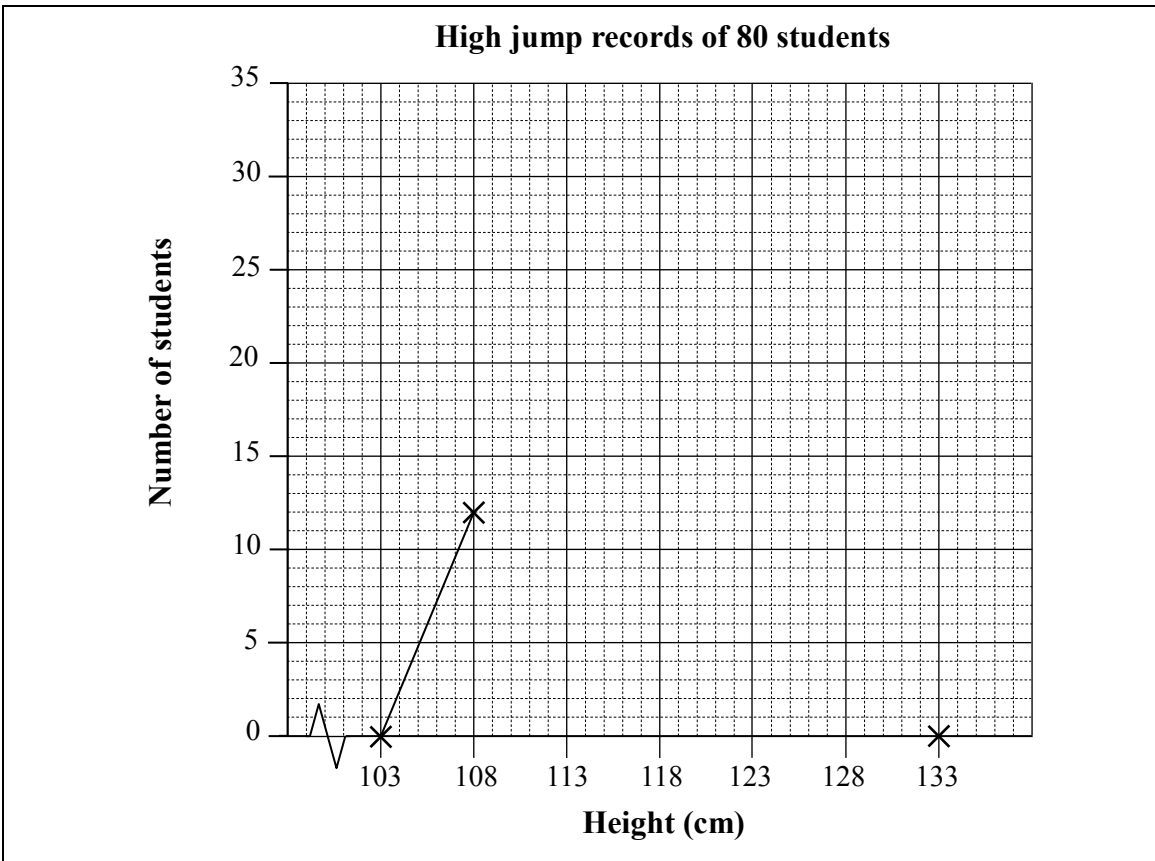
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46.



47.



END OF PAPER

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