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9	M	E	3	(	A	)
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Please stick the barcode label in the box.

**Education Bureau**  
**Territory-wide System Assessment 2018**  
**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**

S			
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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
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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.

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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. (i) \_\_\_\_\_ cm represents the water level of Pok Fu Lam Reservoir has risen by 5 cm.  
(ii) \_\_\_\_\_ cm represents the water level of Shing Mun Reservoir has dropped by 4 cm.

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

23. There are \_\_\_\_\_ positive integers less than  $\sqrt{20}$ .

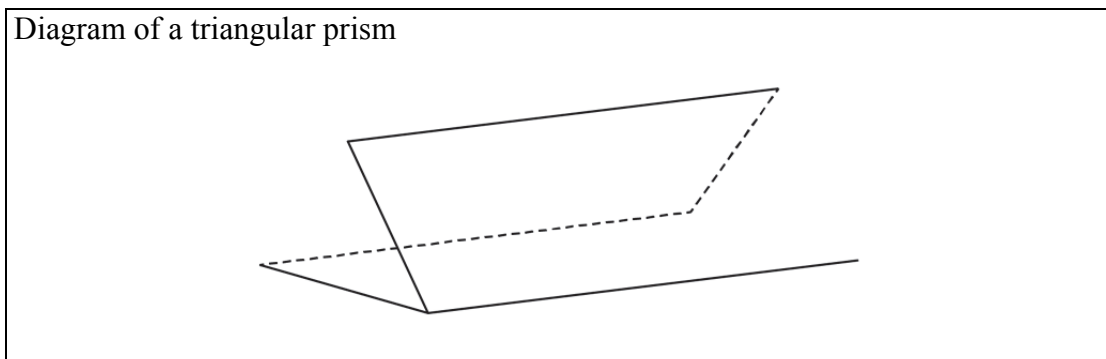
24. \_\_\_\_\_

25. \_\_\_\_\_

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

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

28. Diagram of a triangular prism



29.  $r =$  \_\_\_\_\_

30.  $-\frac{1}{5}$    $-100$

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Please do not write in the margin.

Please do not write in the margin.

31.  $y =$  \_\_\_\_\_

32. \_\_\_\_\_

33.  $x =$  \_\_\_\_\_

34. The coordinates of point  $P$  are ( \_\_\_\_\_ , \_\_\_\_\_ ).

35.  $AB =$  \_\_\_\_\_ units

36. (        )  $\rightarrow$  (        )  $\rightarrow$  (        )  $\rightarrow$  (        )

37. The weighted mean mark of Betty is \_\_\_\_\_ .

38. (a) There are \_\_\_\_\_ workers in the company.

(b) The mode of the ages of the workers is \_\_\_\_\_ .

(c) The number of workers obtaining the extra travel allowance is \_\_\_\_\_ .

39. The required probability = \_\_\_\_\_

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

40.

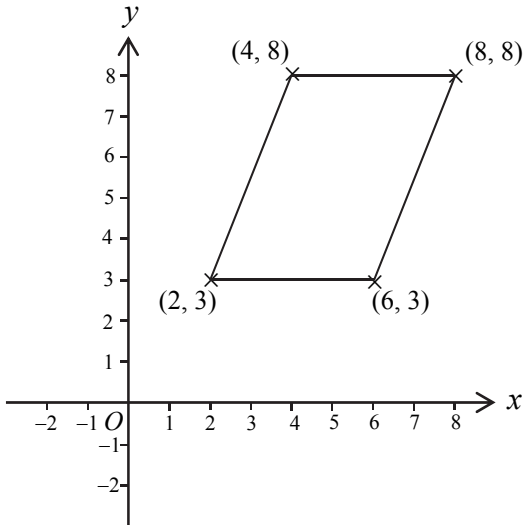
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41.

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42.

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The diagram shows a coordinate plane with a parallelogram. The vertices are labeled with their coordinates: (2, 3), (4, 8), (6, 3), and (8, 8). The x-axis is labeled from -2 to 8, and the y-axis is labeled from -2 to 8. The origin is labeled O.

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43.

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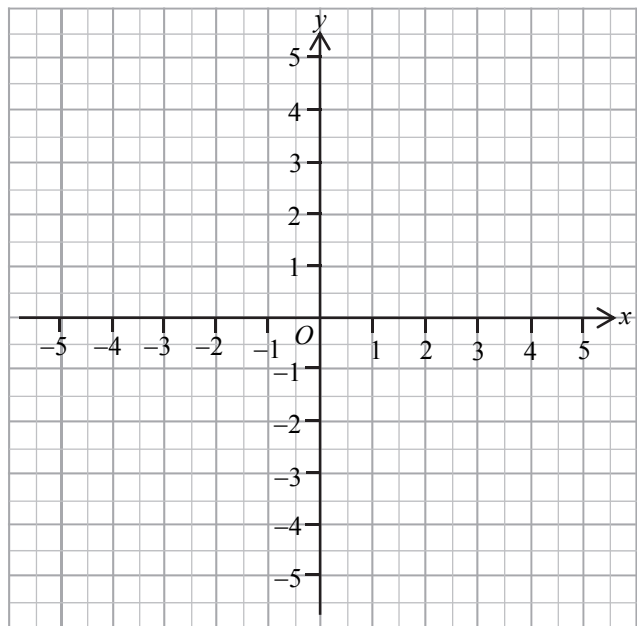
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44.

$$x - y - 2 = 0$$

$x$	-2	2	4
$y$		0	



45.

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46.

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$D$   $F$   
 $62^\circ$   
 $B$   $C$   
 $58^\circ$   
 $G$   $60^\circ$   $E$

47.

(a)

Amount (\$)	100 – 124	125 – 149	150 – 174	175 – 199
Class mark (\$)		137	162	
Frequency	8	14	16	2

(b)

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END OF PAPER