



HKEAA'S USE ONLY

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**Education Bureau**  
**Territory-wide System Assessment 2020**  
**Secondary Mathematics**  
**ANSWER BOOKLET**

**Gainful Use of TSA 2020 Materials**

**INSTRUCTIONS**

1. Write your School Code in the boxes provided on this page.
2. Estimated time for completion is 75 minutes.
3. Write ALL your answers in the spaces provided in this ANSWER BOOKLET.
4. Do not write in the margins.
5. Unless otherwise specified, numerical answers should be either exact or correct to 3 significant figures.
6. The use of HKEAA approved calculators is permitted.
7. Rough work should be done on rough work sheet.

**School  
Code**

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**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

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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

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Please do not write in the margin.

21. A B C D

22. A B C D

23. A B C D

24. A B C D

25. A B C D

26. A B C D

27. A B C D

28. A B C D

29. A B C D

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

30. (i) \_\_\_\_\_ square(s) represents that the red chequer jumps 6 squares forwards.

(ii) \_\_\_\_\_ square(s) represents that the green chequer jumps 1 square backwards.

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

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

33. \_\_\_\_\_

34. \_\_\_\_\_

35.  $-\frac{3}{10}$    $-\frac{5}{10}$

36. The volume of the sphere is \_\_\_\_\_  $\text{cm}^3$ .

37. \_\_\_\_\_

38. (a)  $m =$  \_\_\_\_\_

(b)  $n =$  \_\_\_\_\_

39.  $x =$  \_\_\_\_\_

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

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41.

Table 1	
Weights of students (kg)	Frequency
40 – 49	
50 – 59	5
60 – 69	

Table 2	
Weights of students (kg)	Frequency
40 – 45	
46 – 51	4
52 – 57	
58 – 63	2
64 – 69	

42. The modal class of the number of volunteering hours is

\_\_\_\_\_ hour(s) – \_\_\_\_\_ hour(s).

43. \_\_\_\_\_

44.  $x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_

45. \_\_\_\_\_

46. \_\_\_\_\_

47. \_\_\_\_\_

48.  $a =$  \_\_\_\_\_

49. \*Circle the correct answer

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

(b) \* AAA / AAS / ASA / RHS

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50.  $x =$  \_\_\_\_\_

51. \_\_\_\_\_

52.  $x =$  \_\_\_\_\_

53. The coordinates of point  $T$  are ( \_\_\_\_\_ , \_\_\_\_\_ ).

54.  $AB =$  \_\_\_\_\_ units

55. (      )  $\rightarrow$  (      )  $\rightarrow$  (      )  $\rightarrow$  (      )

56. The weighted mean mark of Vincent is \_\_\_\_\_.

57. (a)

Group	A	B	C	D	E	F
Height (cm)	131 – 140	141 – 150	151 – 160	161 – 170	171 – 180	181 – 190
Frequency	1			14		5

(b) \_\_\_\_\_ students can be basketball team members.

(c) The height of David should belong to group \* A / B / C / D / E / F.  
(\* Circle the correct answer)

58. The required empirical probability = \_\_\_\_\_

59. The marked price of the electrical fan is \$ \_\_\_\_\_.

60. (a) \_\_\_\_\_

(b) \_\_\_\_\_

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61. The area of the sector is \_\_\_\_\_  $\text{cm}^2$ .

62.

**Studying times of 15 students in the last week**

Stem (10 hours)	Leaf (1 hour)
1	
2	
3	
4	
5	

63. It takes \_\_\_\_\_ years to receive the interest.

64. The annual income of the team this year is \$ \_\_\_\_\_.

65. The volume of water is \_\_\_\_\_  $\text{cm}^3$ .

66.  $DC =$  \_\_\_\_\_ cm

67. The distance between  $A$  and  $C$  is \_\_\_\_\_ km.

68. (a)

Time (hour)	6 – 10	11 – 15	16 – 20	21 – 25
Class mark (hour)	8			23
Frequency	6	7	13	4

(b) The mean = \_\_\_\_\_ hours

**END OF PAPER**

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