



# INTERNATIONAL SINGAPORE MATHS COMPETITION 2019 (Primary 4)

1 hour 30 minutes

## Instructions to participants

1. Do not open the booklet until you are told to do so.
2. Attempt ALL 25 questions.
3. Write your answers neatly in the Answer Sheet provided.
4. Marks are awarded for correct answers only.
5. All figures are not drawn to scale.
6. No calculators may be used.

Questions in Section A carry 2 marks each, questions in Section B carry 4 marks each and questions in Section C carry between 6 to 10 marks each.

Jointly organised by



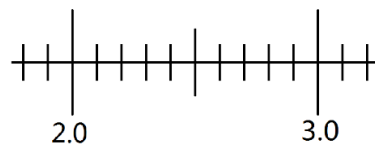
**Section A:**

Each of the questions 1 to 10 carries 2 marks.

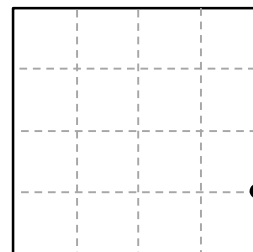
1. What is the largest 4-digit number that is a multiple of 8?

2. Rayner had 20 coins. They are \$1 coins, 50¢ coins and 20¢ coins. He spent half of the number of each type of coins on a \$5 lunch. How many \$1 coins did he have at first?

3. Draw an arrow (↓) on the number line to show where  $\frac{12}{5}$  is. Draw it on your Answer Sheet.



4. Divide the square into 2 halves by drawing ONE straight line passing through the dot in the figure below. Draw it on your Answer Sheet.

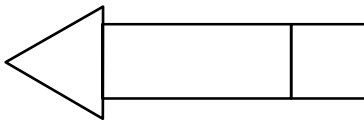


5. Little Jon wants to draw only squares, rectangles and triangles. He has already drawn 2 squares, 2 rectangles and 3 triangles. What is the fewest number of shapes he has to continue to draw so that  $\frac{2}{5}$  of all the shapes are 4-sided figures? Draw what Little Jon has to draw on your Answer Sheet.

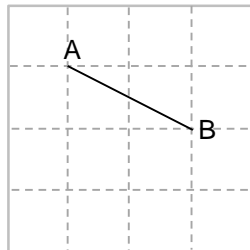
6. Divide 309 by 15 and give your answer as a decimal.

7. Mr Sim was prescribed 7 pills which he had to take in intervals of exactly 8 hours and 30 minutes. If he took the first pill on Friday at 1.40 p.m., when did he take his last pill?

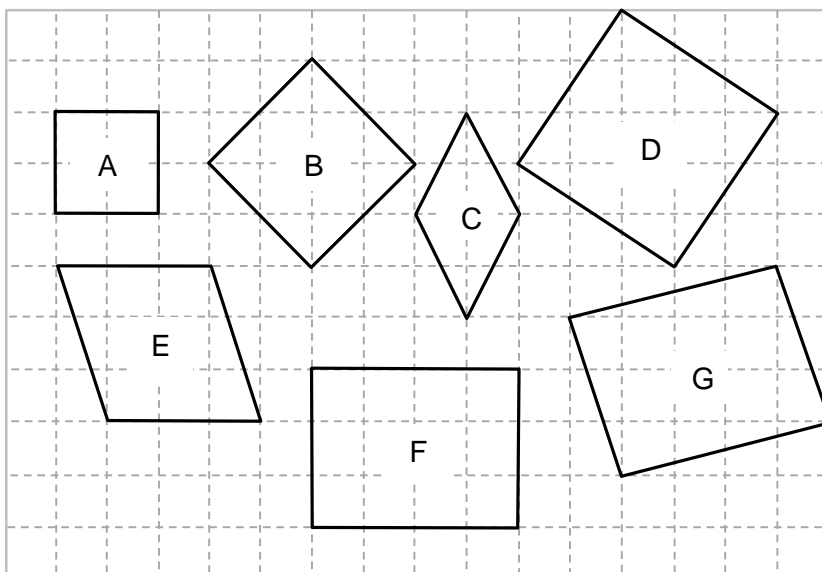
8. The arrow below is not drawn to scale. It is made up of an equilateral triangle, a rectangle and a square. The area of the rectangle is 3 times the area of the square. Each side of the triangle is 2 cm longer than each side of the square. What is the perimeter of the arrow if the square's perimeter is 16 cm?



9. Lenny wants started to draw a square inside the given grid below. He has drawn Line AB as one of the sides of the square. Complete drawing Lenny's square on your Answer Sheet.



10. Which of the figures below is/are squares?



**Section B**

Each of the questions 11 to 20 carries 4 marks.

11. I think of a 5-digit number.

Three of the digits are as follows: 

4	7		3	
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This 5-digit number can be divided by 5, 6 and 15 leaving no remainders.

None of the digits are the same.

What is my 5-digit number?

12. Mandy has twice as many candies as Athelia. After Mandy gave 8 of her candies to her friends and Athelia bought 6 more candies, the total number of candies they both have is 34.  
How many candies does Mandy have now?

13. a) 12 tenths is the same as \_\_\_\_\_ hundredths.

b) Subtract 58 hundredths from 15 tenths and give your answer as a decimal.

14. I think of a number.

When a third of my number is added to 5, then my number is exactly 1.5 times of the sum.

What is my number?

15. Audrey bought some fish and pork at the market. The amount of fish weighed as much as the amount of pork. If 1 kg of fish is \$84 more expensive than 1 kg of pork, and she paid \$21 more for the fish than the pork, how much fish and pork did she buy altogether?  
Give your answer in kg.

16. The table below shows how many of each type of durians Uncle Joe sold today.

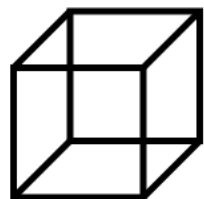
Type	XO	D24	D88	Red Prawn	Musang King
Price/kg	\$14.80	\$11.30	\$10.50	\$12	\$20
Number of durians	3	15	12	4	20

If each durian weighs about 1.5 kg, how much money did Uncle Joe collect today?

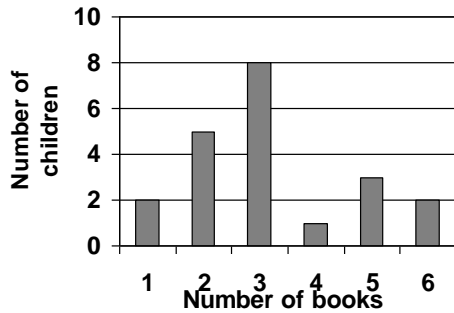
17. At a carnival, Rachel spent  $\frac{2}{5}$  of her money on a Bumper Car ride. She spent  $\frac{1}{3}$  of the remainder on the Ferris Wheel before spending the rest on a \$10 set meal. How much money did she have at the beginning?

18. A box of stamps was equally divided among 18 children. 6 of these children gave up  $\frac{3}{4}$  of their share. As a result, each of the remaining children received 21 more stamps. How many stamps were there in the box?

19. Dan used less than 50 cm of plastic rods to build the frame of a cube. If the length of each side is a whole number of cm, what is the largest possible area of one face of the cube?



20. **Number of books read by the children**

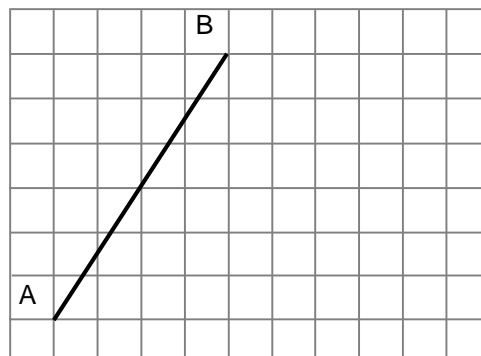


- a) How many books did all the children read altogether?
- b) How many times as many children are there who read 2 books than those who read 4 books?

**Section C**

Questions 21, 22, 23, 24 and 25 carry 6, 7, 8, 9 and 10 marks respectively.

21. The membership fee in a club was \$100. After increasing the price of the membership fee, the number of members decreased by  $\frac{1}{2}$  and the amount of money collected decreased by  $\frac{1}{4}$ . What is the new price of the membership?
22. Within the square grid, complete drawing the quadrilateral ABCD of area  $19.5 \text{ unit}^2$  such that AB is perpendicular to BC and is parallel to DC, and BC is  $\frac{1}{2}$  as long as AB. Draw it in your Answer Sheet.



23. Complete the following long division.  
Fill in the blanks in your Answer Sheet.

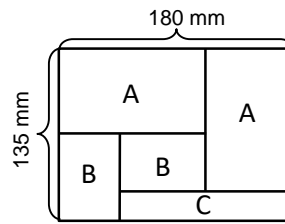
$$\begin{array}{r}
 \phantom{00}00\phantom{0} \\
 \phantom{0}0 \overline{) 5\phantom{00}\phantom{0}} \\
 \underline{\phantom{0}0\phantom{0}6} \\
 \phantom{0}0\phantom{0}7 \\
 \underline{\phantom{0}0\phantom{0}} \\
 \phantom{0}3\phantom{0} \\
 \underline{\phantom{0}0\phantom{0}2} \\
 \phantom{0}0
 \end{array}$$

24. Lana, Kara and Waka took a Quiz which had 6 questions. Each question carries 10 marks. The table below showed their answers and their scores.

	Q1	Q2	Q3	Q4	Q5	Q6	Score
Lana	True	False	False	True	True	False	40 marks
Kara	False	False	True	True	False	False	50 marks
Waka	False	True	True	False	False	True	?

- a) What did Waka score?
- b) For which question was 'True' definitely the correct answer?

25. The figure below (not drawn to scale) is made up of 2 pieces of Rectangle A, 2 pieces of Rectangle B and 1 piece of Rectangle C. What is the perimeter of Rectangle C?



**End of Paper**