

*“Elite Maths Challenge Cup”
International Mathematics Competition*



Primary 3

Mock Paper

Time allowed: 20 minutes

Registration Number	
Name	
Score (Marker Only)	

“Elite Maths Challenge Cup”

International Mathematics Competition

Primary 3 – Mock Paper

Note: There are 20 questions in total, with a full mark of 200 points.

Part A: Multiple Choices Questions (10 questions, 5 points each)

1. () Calculate : $1 + 2 + 3 + 4 + \dots + 99 + 100 + 99 + 98 + 97 + 96 + \dots + 4 + 3 + 2 + 1 = ?$
A. 5050 B. 10100 C. 10000 D. 11000

2. () In the sequence below, find the value of (?)
 $4, 5, 9, 14, 23, 37, (?)$
A. 50 B. 60 C. 56 D. 65

3. () The perimeter of a rectangular piece of cardboard is 26 cm. Its length is 7 cm.
What is its width?
A. 19cm B. 6cm C. 12cm D. 6m

4. () A square has a side length of 9 cm. It is divided into 9 smaller squares of equal size. What is the perimeter of each small square?
A. 4cm B. 6cm C. 9cm D. 12cm

5. () In the equation: $\star \div \odot = 43 \dots\dots 8$, what is the smallest possible value of \star ?
A. 380 B. 388 C. 390 D. 395

6. () In the sequence below, find the value of (?).
$$\begin{array}{l} 91 \times 11 = 1001 \\ 91 \times 22 = 2002 \\ 91 \times 33 = 3003 \\ \quad \downarrow \\ 91 \times (?) = 8008 \end{array}$$

A. 66 B. 8 C. 88 D. 80

7. () Joey wants to use a calculator to verify the calculation " 39×23 ", but the "9" key on the calculator is broken. Which of the following calculations can be used to find the answer?
A. 40×23 B. $40 \times 23 - 23$ C. $40 \times 23 + 23$ D. $40 \times 23 - 1$

8. () 12 liters and 450 mL = (?) mL
A. 1450mL B. 1245mL C. 12450mL D. 124500mL

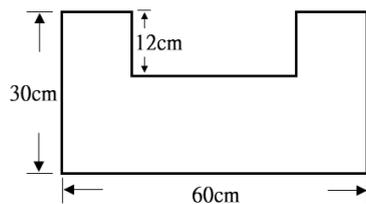
9. () Which of the following statements is correct?
- A. If there is a 0 in the middle of the dividend, there must also be a 0 in the middle of the quotient.
- B. The product of two 2-digit numbers is always a 4-digit number.
- C. The quotient of a 3-digit number divided by a 3-digit number is not always a 3-digit number.
- D. The product of the equation $2000 \times 25 \times 4$ has only three 0s at the end.
10. () A sits south of B, and C sits east of B. Where is A located relative to C?
- A. South-west B. North-west C. South-east D. North-east

* Marker Only *

Part A	Score
5 points each	

Part B: Short-Answer Questions (5 questions, 10 points each)

11. In the division problem $9\Box5 \div 3$, where the quotient has a 0 in the middle and no remainder, what number should be filled in the box (\Box)?
 Answer : ()
12. The average of three numbers, A, B, and C is 120. The average of B and C is 92. What is the value of A?
 Answer : ()
13. After Jack gave John \$15, Jack still had \$15 more than John. How much more money did Jack have than John originally?
 Answer : ()
14. The following diagram shows a garden shaped like an "U" character. What is the perimeter of the garden in centimeters?
 Answer : ()



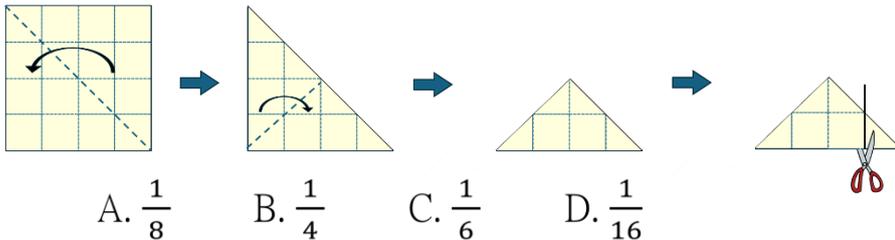
* Marker Only *

Part B	Score
10 points each	

Part C: Challenging Questions (5 questions, 20 points each.)

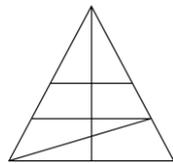
16. The perimeter of a rectangle is 20 cm. The length is 4 times the width. What is the length in centimeters? Answer : ()

17. As shown in the figure below, a piece of colored paper is folded and then cut. When unfolded, what fraction of the original colored paper is cut off?



Answer : ()

18. Count the number of triangles in the following figure:



Answer : ()

19. A number is first added to 8, then multiplied by 2, then subtracted by 10, and finally divided by 4, resulting in 5. What is the number?

Answer : ()

20. Grandma raised a total of 99 chickens, ducks, and geese. The number of ducks is 4 times the number of geese, and the number of chickens is 5 less than twice the number of ducks. How many geese did Grandma raise?

Answer : ()

* Marker Only *

Part C	Score
20 points each	

-----**END OF PAPER**-----