

2023/24 第十八屆香港小學數學創意解難比賽

2023/24 The 18th Hong Kong Mathematics Creative Problem Solving Competition
for Primary Schools

答題紙 Answer sheets

學校編號 School Code : P_____
學校名稱 School Name :

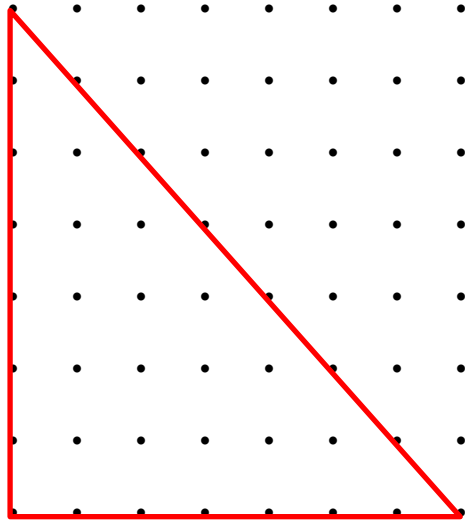
得分 Score :
/50

甲部 Section A

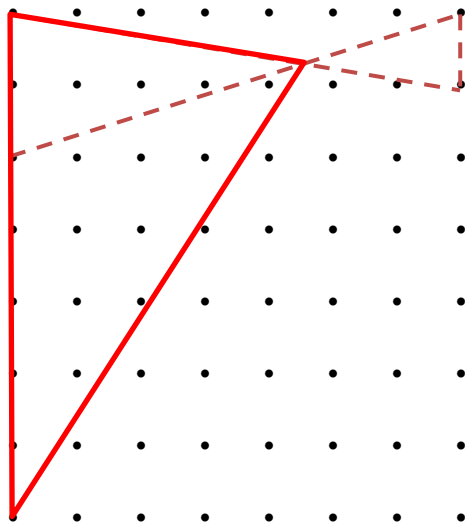
	答案 Answers	評分 Marks
1.	$11 = 3 \times 4 - 2 \div 2$ $12 = 2 - 2 + 3 \times 4$ $13 = 3 \times 4 + 2 \div 2$ $14 = 2 \times 3 + 2 \times 4$ $15 = (4 + 2) \times 2 + 3$	/5

2.

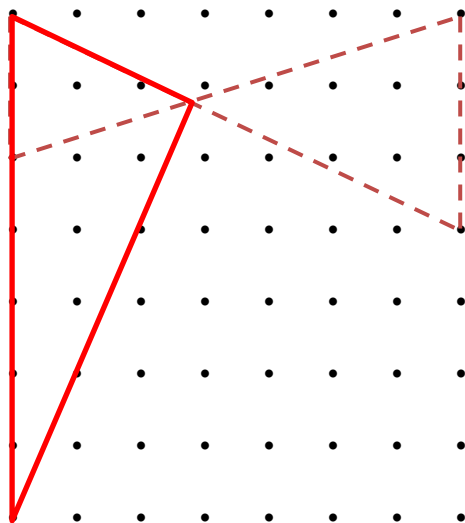
(a)



(b)



(c)



/3

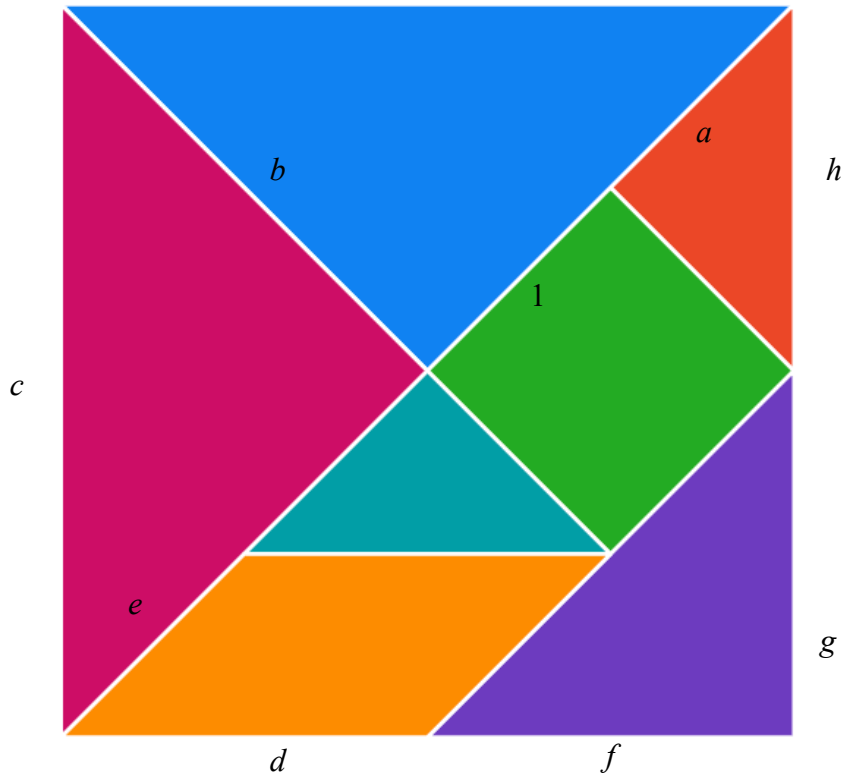
3.	<p style="text-align: center;"><u> E </u>、<u> C </u>、<u> F </u>、<u> D </u>、<u> A </u>、<u> B </u></p> <p style="text-align: center;">(最前) (最後)</p> <p style="text-align: center;">(First position) (Last Position)</p>	/3
4.	勝 Win: <u> 3 </u> ; 負 Lose: <u> 1 </u>	/3
5.	<p>問 CPS 小學合唱團共有團員多少人? How many members are there in the school choir of CPS Primary School?</p> <p>答 Answer : <u> 112 </u></p>	/3
6.	<p>求重疊後圖形的周界。 Find the perimeter of the shape after overlapping.</p> <p>答 Answer : <u> 60 cm </u></p>	/3
7.	<p>他們三人中年齡最大的是多少歲? What is the age of the eldest athlete?</p> <p>答 Answer : <u> 22 </u></p>	/3
8.	<p>這三個質數的相乘最大的積是多少? What is the largest product when the three primes are multiplied together?</p> <p>答 Answer : <u> 1798 </u></p>	/3

9.	<p>在 CPS 少年足球訓練班中既沒有參加了射球訓練也沒有參加守門員訓練的有多少人？</p> <p>How many students in the CPS Junior Football Training Course do not participate in shooting training nor goalkeeping training?</p> <p>答 Answer : <u>10</u></p>	/3
10.	<p>甲隊首場比賽應該派出哪種能力的隊員出賽才能有機會獲得最後勝利？</p> <p>Which member should Team A send for the first game in order to have a chance of winning the champion?</p> <p>答 Answer : <u>3</u></p> <p>求甲隊獲得最後勝利的機會是幾分之幾？</p> <p>What is the probability of Team A to get the champion?</p> <p>答 Answer : <u>1/2</u></p>	/4
11.	<p>請問你可以繪畫多少個面積大於 1 平方單位而小於 10 平方單位的紅色正方形？</p> <p>How many red squares of area larger than 1 square unit and smaller than 10 square units can be drawn?</p> <p>答 Answer : <u>31</u></p>	/3
12.	<p>試寫出一算式，並作以上電線總長度的估算。</p> <p>Write down an expression and estimate the total length of the above electric wires.</p> <p>答 Answer : $\frac{(40\pi+120\pi)\times 25}{2} \times 40 = 8000\pi \text{ cm}$</p> <hr/>	/4

乙部 Section B

1. (a) 求餘下多邊形的所有邊長。(4分)

Find the lengths of all the sides of all other pieces. (4 marks)



- $a = 1$
- $b = 2$
- $c = \sqrt{8}$
- $d = \sqrt{2}$
- $e = 1$
- $f = \sqrt{2}$
- $g = \sqrt{2}$
- $h = \sqrt{2}$

(b) 在以下空格內畫出三個可以七巧板拼出的凸多邊形。(6分)

Use the grid below to draw any three convex polygons that can be formed by the tangram puzzle. (6 marks)

