#### 亞洲國際數學奧林匹克聯合會

ASIA INTERNATIONAL MATHEMATICAL OLYMPAID UNION



### 亞洲國際數學奧林匹克公開賽初賽

Asia International Mathematical Olympiad Open Trial

# 小二組 Grade 2

時限:60 分鐘

Time allowed: 60 minutes

## 樣本試題 Sample Questions

本試題不可取走。 THIS QUESTION PAPER CANNOT BE TAKEN AWAY.

未得監考官同意,切勿翻閱試題,否則參賽者將有可能被取消資格。 DO NOT turn over this Question Paper without approval of the examiner. Otherwise, contestant may be DISQUALIFIED. 請將答案寫在 答題紙 上。

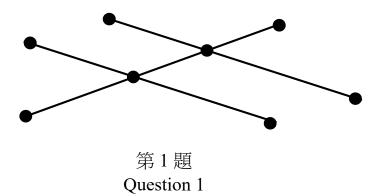
All answers should be written on the ANSWER SHEET.

甲部:每題4分

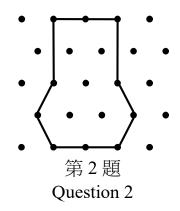
Section A – each question carries 4 marks

#### 1) 下圖有多少條線段?

How many line segments are there in the figure below?



2) 参考附圖,圖中每三個相鄰點組成的三角形面積都是 1 平方厘米,求圖形的面積。 In the figure, the area of each equilateral triangle formed by three neighboring points is lcm². Find the area of the figure.



- 3) 求 71+57+62+38+43+29 的值。 Find the value of 71+57+62+38+43+29.
- 4) 求15-(79-85)+74的值。 Find the value of 15-(79-85)+74.
- 5)
- 6)
- 7)

請將答案寫在 答題紙 上。

All answers should be written on the ANSWER SHEET.

8)

~ 甲部完 ~ ~ End of section A ~

乙部:每題5分

Section B – each question carries 5 marks

- 9) 求18+27-36-45-54-63+72+81的值。 Find the value of 18+27-36-45-54-63+72+81.
- 10) 求(32+33+34+...+46)-(26+27+28+...+40)的值。 Find the value of (32+33+34+...+46)-(26+27+28+...+40).
- 11) 小偉和小威共有 74 條香蕉;若小偉比小威多 26 條香蕉,問小偉有多少條香蕉? William and David have a total of 74 bananas. David has 26 more bananas than William. How many bananas does David have?
- 12) 如果有 15 個泥膠小球和 28 枝竹籤,問利用這些材料做成的錐體底部是一個甚麼邊形?(不可以把泥膠小球分開作多個小球用,也不可以把竹籤弄斷。)
  A pyramid is formed by using 15 clay balls and 28 bamboo sticks. If the base of the pyramid is a polygon. How many sides does the polygon have?
  (Clay balls cannot be broken down as several balls, and the sticks cannot be bent)

13)

14)

15)

16)

~ 乙部完 ~

~ End of section B ~

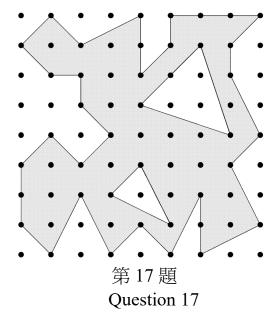
請將答案寫在 答題紙 上。

All answers should be written on the ANSWER SHEET.

丙部:每題7分

Section C – each question carries 7 marks

17) 参考附圖,每個小正方形的面積是 1 平方單位,試求附圖中陰影部分的面積。 In the figure, the area of each smallest square is 1 unit square. Find the area of the shaded region.



18) 小詩有 5 元、2 元和 1 元的硬幣各 4 枚,同這些硬幣可組成多少種不同的面值? (註:0 不計算在內)

Christy has some \$5, \$2 and \$1 coin. She has 4 coins of each type. How many different face values can she form using those coins?

19)

20)

~ 全卷完 ~ ~ End of Paper ~