2022 年學而思盃
五年級 – 樣卷
2022「*Think Mathematics Competition*」
P5 - Sample Paper

學生姓名(Student Name)：＿＿＿＿＿＿＿＿＿

注意事項

1) 本次比賽分為甲、乙、丙三部分。甲部有 15 題，每題 2 分。乙部有 15 題，每題 4 分。丙部有 10 題，每題 6 分。比賽時間 60mins，共 40 題，滿分 150 分。

2) 請把每題答案寫在 **答題卷** 上，所有題目都需要完成。

3) 所有題目均為填充題，只需直接寫下答案。

4) 所有答案須以數字的真確性表達，並化至最簡，不接受近似值。

5) 請使用鉛筆、黑色原子筆或者藍色原子筆作答。

Instructions

1) The competition is divided into three parts: *A, B* and *C*. Section *A*: 1st to 15th Question (Each carries 2 marks) . Section *B*: 16th to 30th Question (Each carries 4 marks) . Section *C*: 31st to 40th Question (Each carries 6 marks) . The time is 60mins, with a total of 40 questions and a full score of 150 marks.

2) Please write your answers neatly ONLY on the *Answer Sheet* provided, all questions need to be completed.

3) All questions are blank filling questions, just write the answer directly.

4) All answers must be in exact value and in its simplest form. Approximations are not accepted.

5) Please use a pencil, black ballpoint pen, or blue ballpoint pen to write down your answers.

甲部 – **第 1 題到第 15 題**(共 15 題，每題 2 分，共 30 分)

Section _A_: 1st to 15th Question (Each carries 2 marks)

1) 求以下算式的值。

Find the value of the following expression.

$$10^2 - 9^2 + 8^2 - 7^2 + 6^2 - 5^2 + 4^2 - 3^2 + 2^2 - 1^2 = \underline{\hspace{2cm}}$$

【答案】55

2) 求以下算式的值。

Find the value of the following expression.

$$12.5 \times 31.4 + 1.25 \times 567 + 0.125 \times 70 = \underline{\hspace{2cm}}$$

【答案】1110

乙部 – **第 16 題到第 30 題**(共 15 題，每題 4 分，共 60 分)

Section _B_: 16th to 30th Question (Each carries 4 marks)

16) 鷄兔共有 84 隻脚，如果將鷄兔的數量進行交換，則共有 78 隻脚，那麼原來有鷄兔共多少隻？

The chickens and rabbits have 84 feet in total. If the number of chickens and rabbits is exchanged, there are 78 feet in total. Then how many chickens and rabbits are there?

【答案】27

17) 一列火車完全通過一座 900 米長的橋用時 45 秒，完全通過一座 1200 米長的橋用時 55 秒，那麼這列火車的速度和長度分別是多少？

It takes 45 seconds for a train to pass through a 900 meter long bridge and 55 seconds to pass through a 1200 meter long bridge. What is the speed and length of the train?

【答案】30 米/秒，450 米

丙部 – **第 31 題到第 40 題**(共 10 題，每題 6 分，共 60 分)

Section C: 31st to 40th Question (Each carries 6 marks)

31) 將 525 表示成 n 個連續自然數之和（$n>1$），有多少種可能？

How many possibilities can 525 be expressed as the sum of n consecutive natural numbers? ($n>1$)

【答案】11

~ 全卷完 ~

~ *End of Paper* ~