揍數回讚

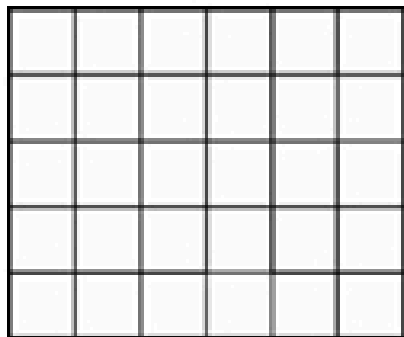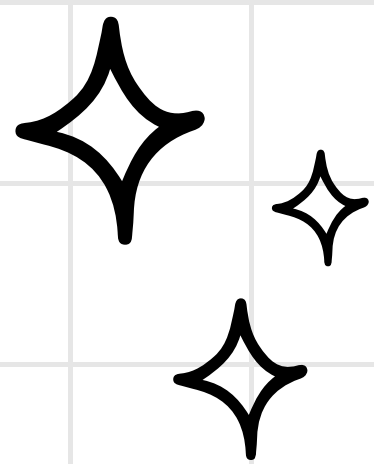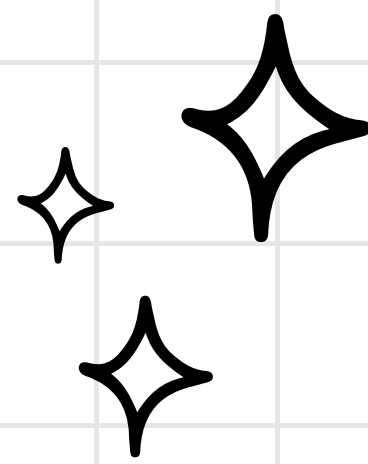|	
1. $7 + 7 + 7 + 7 + 7 =$	9. $[(-7)^5]^2 = (-7)^{\blacksquare}$, $\blacksquare$ =?
2. $-3 \times 3 =$	10. 觀察數列 $0, 1, 1, 2, 3, 5, 8, 13,$ __$, 34, 55$，空格應該放入何數？
3. $-3 \times 3 \times 3 \times 3 \times 3 =$	11. Betty 走進一家牛排館，主餐有牛排、豬排、雞排 3 種，附湯有玉米濃湯、法式洋蔥湯、海鮮湯 3 種，水果有西瓜、鳳梨和蕃茄 3 種。Betty 對主餐、附湯及水果各選一種，試問她共有幾種搭配方法？
4. $(-2) \times (-2) \times (-2) =$	12. Andy 在便利商店買了四瓶紅茶共 100 元，因為活動促銷，所有產品都能打八折後，再打九折，請問 Andy 需付多少錢？
5. $2 \times 4 \times 8 \times 16 = 4^{\blacksquare}$, $\blacksquare$ =?	13. 一瓶飲料 2 元，兩個瓶蓋可再換一瓶；四個無瓶蓋空瓶又可換一瓶，假設你現在有 20 元，那麼你可以喝到多少瓶？
6. $3 \times 3 + 3 + 3 + 3 + 3 + 3 + 3 =$?	14. 養樂多一瓶 8 元，買 2 瓶送 1 瓶，買 30 瓶需要多少元？
7. $2^4 \times 2^6 = 4^{\blacksquare}$, $\blacksquare$ =?	15. Andy 和 Betty 兩人比賽網球，每場必有勝負。若先連勝兩場或先勝三場者，則贏得比賽，試問此比賽共有幾種可能發生的情形？ (提示：利用樹狀圖)
8. 1 到 100 的自然數中，7 的倍數有多少個？	16. 右圖中，每一小格均為邊長為 1 單位的正方形，則圖中共有幾個正方形？

說明：

- 將 1～16 題成功解答後，並依照題號順序對照下方代碼找出最終通關密語。
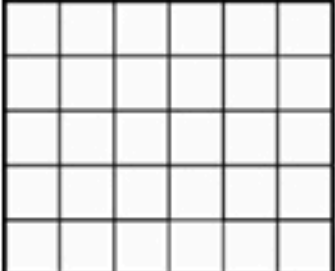- 請將解題過程或說明書寫在答案紙上,並投入投稿箱，1/15(三)截止。

揍數回讚

1. $7 + 7 + 7 + 7 + 7 =$	9. $[(-7)^5]^2 = (-7)^{\blacksquare}, \blacksquare =?$
2. $-3 \times 3 =$	10. Observe the number sequence: 0, 1, 1, 2, 3, 5, 8, 13, __, 34, 55. Please fill in the blank with the correct number.
3. $-3 \times 3 \times 3 \times 3 \times 3 =$	11. Betty walked into a steakhouse. The main courses include steak, pork chop, and chicken chop. The soup options are corn chowder, French onion soup, and seafood soup. The fruit options are watermelon, pineapple, and tomato. If Betty selects one main course, one soup, and one fruit, how many possible combinations are there?
4. $(-2) \times (-2) \times (-2) =$	12. Andy bought four bottles of black tea for 100 NT dollars at a convenience store. During the sales promotion, all products are discounted by 20%, followed by an additional 10% discount. How much does Andy actually need to pay?
5. $2 \times 4 \times 8 \times 16 = 4^{\blacksquare}, \blacksquare =?$	13. A bottle of drink costs 2 NT dollars. Two bottle caps can be exchanged for one new bottle of drink, and four empty bottles without caps can also be exchanged for one new bottle of drink. If you have 20 NT dollars, how many bottles of drink can you get in total?
6. $3 \times 3 + 3 + 3 + 3 + 3 + 3 + 3 = ?$	14. A bottle of Yakult costs 8 NT dollars. For every 2 bottles purchased, you get 1 free. How much will it cost to buy 30 bottles?
7. $2^4 \times 2^6 = 4^{\blacksquare}, \blacksquare =?$	15. Andy and Betty are competing in a tennis match. Each game has a winner and a loser. The player who wins two or three consecutive games wins the match. How many possible match outcomes are there? (Hint: Use a tree diagram.)
8. Among the natural numbers from 1 to 100, how many multiples of 7 are there?	16. According to the figure on the right, each grid has a side length of 1 unit. How many squares of all possible sizes are there in the entire figure?

INSTRUCTIONS:
- AFTER SUCCESSFULLY SOLVING ALL THE QUESTIONS, FOLLOW THE ORDER OF THE QUESTION NUMBERS TO MATCH THE CODES BELOW AND DETERMINE THE FINAL PASSWORD TO COMPLETE THE CHALLENGE.
- WRITE DOWN YOUR PROBLEM-SOLVING PROCESS OR EXPLANATIONS ON THE ANSWER SHEET AND SUBMIT IT TO THE SUBMISSION BOX BY WEDNESDAY, JANUARY 15TH.

屏科實中數學科