

1. 25 digits are shown. Find the sum of the digits.

以下有二十五個數位，求它們之和。

2 2 2 2
2 2 6 2
2 6 6 2
6 6 6 2
4 4 4 4
4 4 4 4 4

2. Write as a single decimal:

以小數表示以下運算的答案。

$$1 - \frac{2}{10} + \frac{3}{100} - \frac{4}{1000}$$

3. When Isaac opens a book, the product of the page numbers on the open pages is 420. Find the sum of the two page numbers.

當以撒打開一本書，在打開的頁面的頁面數的乘積是420。求這兩個頁面數的總和。

4. Some students are in a line. Abby is in the center of the line. Sara is 3 places in front of her, Eli is 4 places behind Sara, and Kayla is 2 places in front of Eli. Kayla is the third person in line. How many students are in the line?

學生是站在一條直列上。阿比是在該線的中心。薩拉在她的面前三個位置，禮在薩拉背後四個位置，而凱拉在禮面前兩個位置。凱拉排在直列中第三個位置。問在直列中有多少個學生？

5. How many 2-digit numbers are there in which the ones digit is greater than the tens digit?

問有多少個兩位數的個位比十位大？

6. How many quarters (worth 25 cents each) must be added to 12 nickels (worth 5 cents each), so that the average value of a coin in the new enlarged collection is 10 cents?

問必須有多少枚甲種硬幣（每個甲種硬幣價值25美分），加入到12枚乙種硬幣（每個乙種硬幣價值5美分），使每枚硬幣平均值為10美分？

7. Amy picks a whole number, squares it and then subtracts 1. She gives her final number to Brian. Brian adds 3 to the number Amy gave him and then doubles that result. Brian's final result is 54. With what number did Amy start?

艾米選取一個整數，求出它的平方值，再減去1。然後她把結果告訴布賴恩。布賴恩把該數增加了3，再把該數乘二。最後的結果是54。問一開始艾米選取的整數是多少？

8. A squirrel buries a total of 80 acorns in N holes. Find the greatest possible value of N , provided:

(1) No hole is empty, and

(2) No two holes contain the same number of acorns.

某松鼠埋藏了共80堅果於 N 孔。求 N 的最大可能值，已知：

(1) 無孔是空的，

(2) 沒有兩個孔含有堅果的數目相同。

9. Given the data: 3, 6, 6, 8, 10, 12.

Find the value of $\frac{3 \times \text{median} - \text{mode}}{6 \times \text{mean}}$.

有以下數值：3, 6, 6, 8, 10, 12.

求 $\frac{3 \times \text{中位數} - \text{眾數}}{6 \times \text{平均數}}$ 。

10. A bank has two plans for checking accounts. In plan A, the charge is \$7.50 a month with no fee for each check. In plan B, the charge is \$3 a month plus an additional 20 cents for each check written. What is the least number of checks a customer must write each month so that plan A costs less than plan B?

銀行有兩個計劃給支票帳戶。在計劃A中，收費為每月\$7.50，每張支票沒有額外收費。在計劃B中，收費為每月\$3.00，另外每張支票收費20美分。問帳戶中每月最少有多少張支票才會使計劃A的成本低於計劃B？