Guessing game for 2 players

Player A

In secret, choose six **different** digits and arrange them to make three-digit numbers.

Still in secret, make an addition or subtraction calculation with your numbers and work out the answer.

Write out the calculation, with little circles instead of numbers. Show this to the other player.

Player B

Choose any digit and write it down.

Player A

Does that digit appear anywhere in your calculation? If it does, write it in every circle where it belongs, including the answer. Let the other player see.
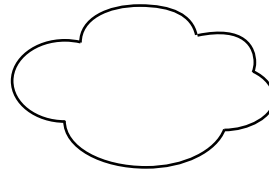
Player B

Choose another digit and write it down.

Both players

Keep playing like this until the calculation is complete. How many digits did Player B write down? That is their score.

Now swap roles and play again.

The player with the lowest score after two games is the winner.

Sample game

Secret numbers

Guess 1   is   **6**

    ○ ⑥ ○
− ○ ○ ○
   ⑥ ⑥ ○

Guess 2   is   **3**

    ○ ⑥ ○
− ○ ○ ③
   ⑥ ⑥ ○

Guess 3   is   **5**

(No change)

Guess 4   is   **1**

    ○ ⑥ ○
− ① ○ ③
   ⑥ ⑥ ①

Guess 5   is   **4**

    ○ ⑥ ④
− ① ○ ③
   ⑥ ⑥ ①

Guess 6   is   **0**

    ○ ⑥ ④
− ① ⓪ ③
   ⑥ ⑥ ①

Guess 7   is   **7**

    ⑦ ⑥ ④
− ① ⓪ ③
   ⑥ ⑥ ①

Score 7