

工夫して計算する1

NO.1

名前

 /10 点

◆ 次のそれぞれを工夫して計算しなさい。

(1) 52^2

(2) 99^2

(3) 73×67

(4) 82×78

(5) $32 \times 97 + 32 \times 3$

(6) $65^2 - 35^2$

(7) $52^2 - 48^2$

(8) 6.1^2

(9) $0.51^2 - 0.49^2$

(10) $28^2 + 2 \times 28 + 2^2$

解答

$$\begin{aligned}(1) \quad & (50 + 2)^2 \\ &= 2500 + 200 + 4 \\ &= 2704\end{aligned}$$

$$\begin{aligned}(2) \quad & (100 - 1)^2 \\ &= 10000 - 200 + 1 \\ &= 9801\end{aligned}$$

$$\begin{aligned}(3) \quad & (70 + 3)(70 - 3) \\ &= 4900 - 9 \\ &= 4891\end{aligned}$$

$$\begin{aligned}(4) \quad & (80 + 2)(80 - 2) \\ &= 6400 - 4 \\ &= 6396\end{aligned}$$

$$\begin{aligned}(5) \quad & 32 \times (97 + 3) \\ &= 32 \times 100 \\ &= 3200\end{aligned}$$

$$\begin{aligned}(6) \quad &= (65 + 35)(65 - 35) \\ &= 100 \times 30 \\ &= 3000\end{aligned}$$

$$\begin{aligned}(7) \quad &= (52 + 48)(52 - 48) \\ &= 100 \times 4 \\ &= 400\end{aligned}$$

$$\begin{aligned}(8) \quad & (6 + 0.1)^2 \\ &= 36 + 1.2 + 0.01 \\ &= 37.21\end{aligned}$$

$$\begin{aligned}(9) \quad &= (0.51 + 0.49)(0.51 - 0.49) \\ &= 1 \times 0.02 \\ &= 0.02\end{aligned}$$

$$\begin{aligned}(10) \quad & (28 + 2)^2 \\ &= 30^2 \\ &= 900\end{aligned}$$