

## 工夫して計算する 1

NO. 2

名前

／10 点

◆ 次のそれぞれを工夫して計算しなさい。

(1)  $201^2$

(2)  $998^2$

(3)  $202 \times 198$

(4)  $203 \times 197$

(5)  $48 \times 14 + 48 \times 43$

(6)  $89^2 - 11^2$

(7)  $175^2 - 25^2$

(8)  $9.8^2$

(9)  $6.5^2 - 3.5^2$

(10)  $999^2 + 2 \times 999 + 1^2$

## 解答

$$\begin{aligned}
 (1) \quad & (200 + 1)^2 \\
 = & 40000 + 400 + 1 \\
 = & 40401
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & (1000 - 2)^2 \\
 = & 1000000 - 4000 + 4 \\
 = & 996004
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & (200 + 2)(200 - 2) \\
 = & 40000 - 4 \\
 = & 39996
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & (200 + 3)(200 - 3) \\
 = & 40000 - 9 \\
 = & 39991
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad & 48 \times (14 + 43) \\
 = & 48 \times 57 \\
 = & 2736
 \end{aligned}$$

$$\begin{aligned}
 (6) \quad & = (89 + 11)(89 - 11) \\
 = & 100 \times 78 \\
 = & 7800
 \end{aligned}$$

$$\begin{aligned}
 (7) \quad & = (175 + 25)(175 - 25) \\
 = & 200 \times 150 \\
 = & 30000
 \end{aligned}$$

$$\begin{aligned}
 (8) \quad & (10 - 0.2)^2 \\
 = & 100 - 4 + 0.04 \\
 = & 96.04
 \end{aligned}$$

$$\begin{aligned}
 (9) \quad & = (6.5 + 3.5)(6.5 - 3.5) \\
 = & 10 \times 3 \\
 = & 30
 \end{aligned}$$

$$\begin{aligned}
 (10) \quad & (999 + 1)^2 \\
 = & 1000^2 \\
 = & 1000000
 \end{aligned}$$