

## 根号の変形 基本

NO.2

名前

/ 点

1 次の ( ) にあてはまる数を書いて、 $\sqrt{a}$  の形になおしなさい。

$$\begin{aligned} \textcircled{1} \quad 3\sqrt{2} &= \sqrt{(\quad)^2 \times 2} \\ &= \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 4\sqrt{3} &= \sqrt{(\quad)^2 \times 2} \\ &= \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad 2\sqrt{6} &= \sqrt{(\quad)^2 \times (\quad)} \\ &= \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 5\sqrt{3} &= \sqrt{(\quad)^2 \times (\quad)} \\ &= \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad 10\sqrt{2} &= \sqrt{(\quad)^2 \times (\quad)} \\ &= \end{aligned}$$

2 次の ( ) にあてはまる数を書いて、 $a\sqrt{b}$  の形になおしなさい。

$$\begin{aligned} \textcircled{1} \quad 20 &= (\quad)^2 \times 5 \\ \sqrt{20} &= \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 72 &= (\quad)^2 \times 2 \\ \sqrt{72} &= \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad 45 &= (\quad)^2 \times 5 \\ \sqrt{45} &= \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 98 &= (\quad)^2 \times (\quad) \\ \sqrt{98} &= \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad 128 &= (\quad)^2 \times (\quad) \\ \sqrt{128} &= \end{aligned}$$

解答

$$\boxed{1} \quad \textcircled{1} \quad 3\sqrt{2} = \sqrt{(3)^2 \times 2} \\ = \sqrt{18}$$

$$\textcircled{2} \quad 4\sqrt{3} = \sqrt{(4)^2 \times 3} \\ = \sqrt{48}$$

$$\textcircled{3} \quad 2\sqrt{6} = \sqrt{(2)^2 \times (6)} \\ = \sqrt{24}$$

$$\textcircled{4} \quad 5\sqrt{3} = \sqrt{(5)^2 \times (3)} \\ = \sqrt{75}$$

$$\textcircled{4} \quad 10\sqrt{2} = \sqrt{(10)^2 \times (2)} \\ = \sqrt{200}$$

$$\boxed{2} \quad \textcircled{1} \quad 20 = (2)^2 \times 5 \\ \sqrt{20} = 2\sqrt{5}$$

$$\textcircled{2} \quad 72 = (6)^2 \times 2 \\ \sqrt{72} = 6\sqrt{2}$$

$$\textcircled{3} \quad 45 = (3)^2 \times 5 \\ \sqrt{45} = 3\sqrt{5}$$

$$\textcircled{4} \quad 98 = (7)^2 \times (2) \\ \sqrt{98} = 7\sqrt{2}$$

$$\textcircled{5} \quad 128 = (8)^2 \times (2) \\ \sqrt{128} = 8\sqrt{2}$$