

根号の変形 基本

NO.1

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。

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

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

$$\begin{aligned} \textcircled{3} \quad 3\sqrt{7} &= \sqrt{(\quad)^2 \times (\quad)} \\ &= \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 8\sqrt{2} &= \sqrt{(\quad)^2 \times (\quad)} \\ &= \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad 11\sqrt{3} &= \sqrt{(\quad)^2 \times (\quad)} \\ &= \end{aligned}$$

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。

$$\begin{aligned} \textcircled{1} \quad 12 &= (\quad)^2 \times 3 \\ \sqrt{12} &= \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 24 &= (\quad)^2 \times 6 \\ \sqrt{24} &= \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad 50 &= (\quad)^2 \times 2 \\ \sqrt{50} &= \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 32 &= (\quad)^2 \times (\quad) \\ \sqrt{32} &= \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad 125 &= (\quad)^2 \times (\quad) \\ \sqrt{125} &= \end{aligned}$$

解答

$$\boxed{1} \quad \textcircled{1} \quad 2\sqrt{2} = \sqrt{(2)^2 \times 2} \\ = \sqrt{8}$$

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

$$\textcircled{3} \quad 3\sqrt{7} = \sqrt{(3)^2 \times (7)} \\ = \sqrt{63}$$

$$\textcircled{4} \quad 8\sqrt{2} = \sqrt{(8)^2 \times (2)} \\ = \sqrt{128}$$

$$\textcircled{4} \quad 11\sqrt{3} = \sqrt{(11)^2 \times (3)} \\ = \sqrt{363}$$

$$\boxed{2} \quad \textcircled{1} \quad 12 = (2)^2 \times 3 \\ \sqrt{12} = 2\sqrt{3}$$

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

$$\textcircled{3} \quad 50 = (5)^2 \times 2 \\ \sqrt{50} = 5\sqrt{2}$$

$$\textcircled{4} \quad 32 = (4)^2 \times (2) \\ \sqrt{32} = 4\sqrt{2}$$

$$\textcircled{5} \quad 125 = (5)^2 \times (5) \\ \sqrt{125} = 5\sqrt{5}$$