

平方根の計算 乗除

No.2

名前

/10 点

1. 次の計算をしなさい。

(1) $\sqrt{2} \times \sqrt{3}$

(2) $\sqrt{3} \times \sqrt{75}$

(3) $\sqrt{24} \div \sqrt{3}$

(4) $\sqrt{6} \times (-2\sqrt{3})$

(5) $\sqrt{6} \div \sqrt{27}$

(6) $\sqrt{8} \div \sqrt{12}$

(7) $8\sqrt{24} \div 2\sqrt{6}$

(8) $\sqrt{30} \times \sqrt{60} \div \sqrt{20}$

(9) $\sqrt{24} \div \sqrt{8} \times \sqrt{3}$

(10) $\frac{\sqrt{4}}{12} \div \frac{\sqrt{8}}{6}$

解答

$$(1) \sqrt{6}$$

$$(2) \sqrt{3 \times 3 \times 25} = 3 \sqrt{25} = 15$$

$$(3) \sqrt{8} = 2 \sqrt{2}$$

$$(4) -2 \sqrt{18} = -2 \times 3 \sqrt{2} = -6 \sqrt{2}$$

$$(5) \sqrt{\frac{6}{27}} = \sqrt{\frac{2}{9}} = \frac{\sqrt{2}}{3}$$

$$(6) \sqrt{\frac{8}{12}} = \sqrt{\frac{2}{3}} = \frac{\sqrt{6}}{3}$$

$$(7) 4 \sqrt{4} = 4 \times 2 = 8$$

$$(8) \sqrt{\frac{30 \times 60}{20}} = \sqrt{90} \\ = 3 \sqrt{10}$$

$$(9) \sqrt{\frac{24 \times 3}{8}} = \sqrt{9} \\ = 3$$

$$(10) \frac{\sqrt{4}}{12} \times \frac{6}{\sqrt{8}} = \frac{1}{2 \sqrt{2}} = \frac{\sqrt{2}}{4}$$