

平方根の計算 乗除

No.1

名前

/10 点

1. 次の計算をしなさい。

(1) $\sqrt{3} \times \sqrt{5}$

(2) $\sqrt{21} \times \sqrt{7}$

(3) $\sqrt{21} \div \sqrt{3}$

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

(5) $\sqrt{27} \div \sqrt{12}$

(6) $\sqrt{7} \div \sqrt{14}$

(7) $6\sqrt{27} \div 2\sqrt{3}$

(8) $\sqrt{24} \times \sqrt{5} \div \sqrt{3}$

(9) $\sqrt{21} \div \sqrt{7} \times \sqrt{3}$

(10) $\frac{\sqrt{3}}{6} \div \frac{\sqrt{6}}{3}$

解答

$$(1) \sqrt{15}$$

$$(2) \sqrt{7 \times 7 \times 3} = 7 \sqrt{3}$$

$$(3) \sqrt{7}$$

$$(4) 2 \sqrt{6}$$

$$(5) \sqrt{\frac{27}{12}} = \sqrt{\frac{9}{4}} = \frac{3}{2}$$

$$(6) \sqrt{\frac{7}{14}} = \sqrt{\frac{1}{2}} = \frac{\sqrt{2}}{2}$$

$$(7) 3 \sqrt{9} = 3 \times 3 = 9$$

$$(8) \sqrt{\frac{24 \times 5}{3}} = \sqrt{40}$$
$$= 2 \sqrt{10}$$

$$(9) \sqrt{\frac{21 \times 3}{7}} = \sqrt{9}$$
$$= 3$$

$$(10) \frac{\sqrt{3}}{6} \times \frac{3}{\sqrt{6}} = \frac{1}{2 \sqrt{2}} = \frac{\sqrt{2}}{4}$$