

( ) 組 ( ) 番 名前 ( )

次の計算をなさい。分母は有理化しなさい。

$$(1) \quad \sqrt{2} \div \sqrt{3} = \frac{\sqrt{2}}{\sqrt{3}} = \frac{\sqrt{2 \times \sqrt{3}}}{\sqrt{3 \times \sqrt{3}}} \\ = \frac{\sqrt{6}}{3}$$

$$(2) \quad \sqrt{10} \div \sqrt{30} = \frac{\sqrt{10}}{\sqrt{30}} = \frac{\sqrt{10 \times \sqrt{30}}}{\sqrt{30 \times \sqrt{30}}} \\ = \frac{\sqrt{300}}{30} = \frac{10\sqrt{3}}{30}$$

$$(3) \quad 5 \div \sqrt{3} = \frac{5}{\sqrt{3}} = \frac{5 \times \sqrt{3}}{\sqrt{3 \times \sqrt{3}}} \\ = \frac{5\sqrt{3}}{3}$$

$$(4) \quad 28\sqrt{3} \div 4\sqrt{21} = \frac{28\sqrt{3}}{4\sqrt{21}} = \frac{7\sqrt{3}}{\sqrt{21}} \\ = \frac{7 \times \sqrt{7}}{\sqrt{7 \times 7}} = \frac{7\sqrt{7}}{7} \\ = \sqrt{7}$$

$$(5) \quad \sqrt{3} \times \sqrt{10} \div \sqrt{5} \\ = \sqrt{\frac{3 \times 10}{5}} \\ = \sqrt{6}$$

$$(6) \quad \sqrt{21} \div \sqrt{7} \times \sqrt{5} \\ = \sqrt{\frac{21 \times 5}{7}} \\ = \sqrt{15}$$

$$(7) \quad \sqrt{24} \times \sqrt{6} \div \sqrt{12} \\ = \sqrt{\frac{24 \times 6}{12}} = \sqrt{12} \\ = 2\sqrt{3}$$

$$(8) \quad 2\sqrt{14} \times 3\sqrt{2} \div \sqrt{7} \\ = 2 \times 3 \times \sqrt{\frac{14 \times 2}{7}} = 6 \times \sqrt{4} \\ = 12$$