

分数のわり算 (5)

名前 _____

【分数 ÷ 分数の計算】

【1】 次の計算をしなさい。

$$(1) \frac{2}{7} \div \frac{5}{8} = \frac{2 \times 8}{7 \times 5} = \frac{16}{35}$$

$$(2) \frac{6}{7} \div \frac{3}{10} = \frac{\overset{2}{\cancel{6}} \times 10}{7 \times \underset{1}{\cancel{3}}} = \frac{20}{7} \left(2\frac{6}{7}\right)$$

$$(3) \frac{5}{3} \div \frac{1}{6} = \frac{5 \times \overset{2}{\cancel{6}}}{\underset{1}{\cancel{3}} \times 1} = 10$$

$$(4) \frac{7}{4} \div \frac{3}{14} = \frac{7 \times \overset{7}{\cancel{14}}}{\underset{2}{\cancel{4}} \times 3} = \frac{49}{6} \left(8\frac{1}{6}\right)$$

$$(5) \frac{9}{2} \div \frac{6}{7} = \frac{\overset{3}{\cancel{9}} \times 7}{2 \times \underset{2}{\cancel{6}}} = \frac{21}{4} \left(5\frac{1}{4}\right)$$

$$(6) \frac{11}{8} \div \frac{1}{4} = \frac{11 \times \overset{1}{\cancel{4}}}{\underset{2}{\cancel{8}} \times 1} = \frac{11}{2} \left(5\frac{1}{2}\right)$$

$$(7) \frac{8}{17} \div \frac{8}{3} = \frac{\overset{1}{\cancel{8}} \times 3}{17 \times \underset{1}{\cancel{8}}} = \frac{3}{17}$$

$$(8) \frac{2}{5} \div \frac{16}{9} = \frac{\overset{1}{\cancel{2}} \times 9}{5 \times \underset{8}{\cancel{16}}} = \frac{9}{40}$$

$$(9) \frac{4}{9} \div \frac{8}{5} = \frac{\overset{1}{\cancel{4}} \times 5}{9 \times \underset{2}{\cancel{8}}} = \frac{5}{18}$$

$$(10) \frac{5}{6} \div \frac{10}{3} = \frac{\overset{1}{\cancel{5}} \times \overset{1}{\cancel{3}}}{\underset{2}{\cancel{6}} \times \underset{2}{\cancel{10}}} = \frac{1}{4}$$

$$(11) \frac{30}{7} \div \frac{9}{5} = \frac{\overset{10}{\cancel{30}} \times 5}{7 \times \underset{3}{\cancel{9}}} = \frac{50}{21} \left(2\frac{8}{21}\right)$$

$$(12) \frac{11}{4} \div \frac{17}{4} = \frac{11 \times \overset{1}{\cancel{4}}}{\underset{1}{\cancel{4}} \times 17} = \frac{11}{17}$$

$$(13) \frac{3}{2} \div \frac{9}{7} = \frac{\overset{1}{\cancel{3}} \times 7}{2 \times \underset{3}{\cancel{9}}} = \frac{7}{6} \left(1\frac{1}{6}\right)$$

$$(14) \frac{8}{5} \div \frac{28}{9} = \frac{\overset{2}{\cancel{8}} \times 9}{5 \times \underset{7}{\cancel{28}}} = \frac{18}{35}$$

【2】 次の問題に答えなさい

(1) A君とB君の水とうには、水がそれぞれ $\frac{1}{2}$ L、 $\frac{2}{5}$ L 入っています。A君の水筒には、B君の水とうの何倍の水が入っていますか。

$$\text{式} \quad \frac{1}{2} \div \frac{2}{5} = \frac{1 \times 5}{2 \times 2} = \frac{5}{4}$$

答え $\frac{5}{4}$ 倍 $\left(1\frac{1}{4}\right)$ 倍

(2) $\frac{4}{5}$ m あたりの重さが $\frac{7}{2}$ kg の棒があります。この棒 1m の重さは何 kg ですか。

$$\text{式} \quad \frac{7}{2} \div \frac{4}{5} = \frac{7 \times 5}{2 \times 4} = \frac{35}{8}$$

答え $\frac{35}{8}$ kg $\left(4\frac{3}{8}\right)$ kg