

10

分数のわり算

解答と解説

解答

①

- (1) $\frac{3}{8}$
- (2) $\frac{2}{15}$
- (3) $\frac{1}{27}$
- (4) $\frac{1}{16}$
- (5) $\frac{1}{4}$
- (6) $\frac{1}{20}$

②

- (1) $\frac{21}{20} \left(1\frac{1}{20}\right)$
- (2) $\frac{7}{12}$
- (3) $\frac{2}{3}$
- (4) $\frac{54}{5} \left(10\frac{4}{5}\right)$
- (5) $\frac{6}{5} \left(1\frac{1}{5}\right)$
- (6) $\frac{4}{9}$
- (7) $\frac{33}{13} \left(2\frac{7}{13}\right)$
- (8) $\frac{10}{9} \left(1\frac{1}{9}\right)$
- (9) 4
- (10) 10
- (11) $\frac{3}{2} \left(1\frac{1}{2}\right)$
- (12) $\frac{35}{6} \left(5\frac{5}{6}\right)$
- (13) $\frac{8}{3} \left(2\frac{2}{3}\right)$
- (14) $\frac{5}{2} \left(2\frac{1}{2}\right)$

解説

*分数 ÷ 整数 の計算

分子はそのままにして、
分母にその整数をかける。

$$\frac{\bigcirc}{\square} \div \blacktriangle = \frac{\bigcirc}{\square \times \blacktriangle}$$

*分数 ÷ 分数 の計算

わる数の分母と分子を入れ
かえた数をかける。

$$\frac{\bigcirc}{\square} \div \frac{\blacktriangle}{\bullet} = \frac{\bigcirc}{\square} \times \frac{\bullet}{\blacktriangle}$$

① (1) $\frac{3}{4} \div 2 = \frac{3}{4 \times 2} = \frac{3}{8}$

(2) $\frac{2}{3} \div 5 = \frac{2}{3 \times 5} = \frac{2}{15}$

(3) $\frac{2}{9} \div 6 = \frac{2}{9 \times 6} = \frac{1}{27}$

(4) $\frac{5}{8} \div 10 = \frac{5}{8 \times 10} = \frac{1}{16}$

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

(6) $\frac{2}{5} \div 8 = \frac{2}{5 \times 8} = \frac{1}{20}$



② (1) $\frac{3}{5} \div \frac{4}{7} = \frac{3}{5} \times \frac{7}{4} = \frac{21}{20}$

(2) $\frac{1}{4} \div \frac{3}{7} = \frac{1}{4} \times \frac{7}{3} = \frac{7}{12}$

(3) $\frac{8}{9} \div \frac{4}{3} = \frac{8}{9} \times \frac{3}{4}$
 $= \frac{\overset{2}{\cancel{8}} \times \overset{1}{\cancel{3}}}{\underset{3}{\cancel{9}} \times \underset{1}{\cancel{4}}} = \frac{2}{3}$

(4) $\frac{6}{5} \div \frac{1}{9} = \frac{6}{5} \times \frac{9}{1} = \frac{54}{5}$

(5) $\frac{3}{7} \div \frac{5}{14} = \frac{3}{7} \times \frac{14}{5} = \frac{6}{5}$

(6) $\frac{1}{2} \div \frac{9}{8} = \frac{1}{2} \times \frac{8}{9} = \frac{4}{9}$

(7) $\frac{15}{13} \div \frac{5}{11} = \frac{15}{13} \times \frac{11}{5} = \frac{33}{13}$

(8) $\frac{8}{9} \div \frac{4}{5} = \frac{8}{9} \times \frac{5}{4} = \frac{10}{9}$

(9) $\frac{10}{13} \div \frac{5}{26} = \frac{10}{13} \times \frac{26}{5} = 4$

(10) $\frac{22}{7} \div \frac{11}{35} = \frac{22}{7} \times \frac{35}{11} = 10$

(11) $\frac{21}{16} \div \frac{7}{8} = \frac{21}{16} \times \frac{8}{7} = \frac{3}{2}$

(12) $5 \div \frac{6}{7} = \frac{5}{1} \div \frac{6}{7}$
 $= \frac{5}{1} \times \frac{7}{6} = \frac{35}{6}$

5を $\frac{5}{1}$ に直すよ。

(13) $3 \div \frac{6}{5} = \frac{3}{1} \div \frac{6}{5}$
 $= \frac{3}{1} \times \frac{5}{6} = \frac{5}{2}$

(14) $9 \div \frac{3}{4} = \frac{9}{1} \div \frac{3}{4}$
 $= \frac{9}{1} \times \frac{4}{3} = 12$