

1. 次の分数の約分をせよ。 Reduce the following fraction.

3. 次の分数の計算をせよ。 Calculate the following fractions.

れい だい 例題	もん だい 問題
$\frac{4}{6}$  $= \frac{\cancel{2} \times 2}{\cancel{2} \times 3} = \frac{2}{3}$	$\frac{2}{8}$
$\frac{3}{6}$  $= \frac{\cancel{3} \times 1}{\cancel{3} \times 2} = \frac{1}{2}$	$\frac{6}{9}$
$\frac{12}{8}$  $= \frac{\cancel{4} \times 3}{\cancel{4} \times 2} = \frac{3}{2}$	$\frac{20}{15}$
$\frac{6}{3}$  $= \frac{\cancel{3} \times 2}{\cancel{3} \times 1} = \frac{2}{1} = 2$	$\frac{24}{4}$

れい だい 例題	もん だい 問題
$\frac{2}{3} \div \frac{7}{5}$  $= \left( \frac{2}{3} \times \frac{5}{7} \right) \div \left( \frac{7}{5} \times \frac{5}{7} \right)$  $= \frac{2}{3} \times \frac{5}{7} \div 1 = \frac{10}{21}$	$\frac{3}{7} \div \frac{2}{5}$
$\frac{2}{3} \div 5 \quad \left( 5 = \frac{5}{1} \right)$  $= \left( \frac{2}{3} \times \frac{1}{5} \right) \div \left( \frac{5}{1} \times \frac{1}{5} \right)$  $= \frac{2}{3} \times \frac{1}{5} \div 1 = \frac{2}{15}$	$\frac{3}{7} \div 2$

2. 次の分数の掛け算をせよ。 Multiply the following fractions.

れい だい 例題	もん だい 問題
$\frac{2}{3} \times \frac{4}{5}$  $= \frac{2 \times 4}{3 \times 5} = \frac{8}{15}$	$\frac{2}{3} \times \frac{8}{7}$
$\frac{\overset{1}{\cancel{2}}}{\underset{2}{\cancel{4}}} \times \frac{3}{5}$  $= \frac{1 \times 3}{2 \times 5} = \frac{3}{10}$	$\frac{4}{8} \times \frac{3}{5}$
$\frac{\underset{1}{\cancel{3}}}{\cancel{4}} \times \frac{\overset{2}{\cancel{8}}}{5}$  $= \frac{3 \times 2}{1 \times 5} = \frac{6}{5}$	$\frac{5}{6} \times \frac{3}{4}$
$\frac{\overset{1}{\cancel{2}}}{\cancel{8}} \times \frac{\overset{3}{\cancel{6}}}{5}$  $= \frac{1 \times 3}{2 \times 5} = \frac{3}{10}$	$\frac{2}{18} \times \frac{6}{7}$
$\frac{\overset{1}{\cancel{5}}}{\underset{2}{\cancel{4}}} \times \frac{\overset{3}{\cancel{6}}}{\underset{1}{\cancel{5}}}$  $= \frac{1 \times 3}{2 \times 1} = \frac{3}{2}$	$\frac{7}{6} \times \frac{3}{7}$
$\frac{\overset{2}{\cancel{6}}}{\underset{7}{\cancel{35}}} \times \frac{\overset{2}{\cancel{10}}}{\underset{3}{\cancel{21}}} \times \frac{\overset{2}{\cancel{14}}}{\underset{5}{\cancel{15}}}$  $= \frac{2 \times 2 \times 2}{7 \times 3 \times 5} = \frac{8}{105}$	$\frac{15}{14} \times \frac{21}{10} \times \frac{6}{35}$
$\frac{2}{3} \times 5 \quad \left( 5 = \frac{5}{1} \right)$  $= \frac{2 \times 5}{3 \times 1} = \frac{10}{3}$	$\frac{3}{4} \times 7$

4. 次の分数の割り算をせよ。 Calculate the division of the following fractions.

れい だい 例題	もん だい 問題
$\frac{1}{3} \div \frac{4}{5}$  $= \frac{1}{3} \times \frac{5}{4}$  $= \frac{1 \times 5}{3 \times 4} = \frac{5}{12}$	$\frac{3}{8} \div \frac{4}{5}$
$\frac{3}{6} \div \frac{5}{3}$  $= \frac{\overset{1}{\cancel{3}}}{\underset{2}{\cancel{6}}} \times \frac{3}{5}$  $= \frac{1 \times 3}{2 \times 5} = \frac{3}{10}$	$\frac{8}{6} \div \frac{5}{3}$
$\frac{3}{4} \div \frac{6}{5}$  $= \frac{\overset{1}{\cancel{3}}}{4} \times \frac{5}{\underset{2}{\cancel{6}}}$  $= \frac{1 \times 5}{4 \times 2} = \frac{5}{8}$	$\frac{5}{6} \div \frac{2}{3}$
$\frac{10}{3} \div \frac{5}{6}$  $= \frac{\overset{2}{\cancel{10}}}{3} \times \frac{\overset{2}{\cancel{6}}}{\underset{1}{\cancel{5}}}$  $= \frac{2 \times 2}{1 \times 1} = \frac{4}{1} = 4$	$\frac{9}{4} \div \frac{3}{8}$
$\frac{15}{4} \div 6$  $= \frac{\overset{5}{\cancel{15}}}{4} \times \frac{1}{\underset{2}{\cancel{6}}}$  $= \frac{5 \times 1}{4 \times 2} = \frac{5}{8}$	$\frac{4}{3} \div 8$

基礎数学 分数の掛け算・割り算 2 課題

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1. 次の分数の約分をせよ。 Reduce the following fraction.

れいだい 例題	もんだい 問題
$\frac{6}{9}$  $= \frac{\cancel{3} \times 2}{\cancel{3} \times 3} = \frac{2}{3}$	$\frac{4}{8}$
$\frac{12}{8}$  $= \frac{\cancel{4} \times 3}{\cancel{4} \times 2} = \frac{3}{2}$	$\frac{15}{6}$
$\frac{12}{6}$  $= \frac{\cancel{6} \times 2}{\cancel{6} \times 1} = \frac{2}{1} = 2$	$\frac{20}{5}$

2. 次の分数の掛け算をせよ。 Multiply the following fractions.

れいだい 例題	もんだい 問題
$\frac{1}{3} \times \frac{2}{5}$  $= \frac{1 \times 2}{3 \times 5} = \frac{2}{15}$	$\frac{5}{8} \times \frac{3}{7}$
$\frac{\cancel{2}^2 4}{\cancel{6}_3} \times \frac{5}{7}$  $= \frac{2 \times 5}{3 \times 7} = \frac{10}{21}$	$\frac{3}{9} \times \frac{4}{5}$
$\frac{\cancel{5}_3 \cancel{6}^2}{\cancel{3}} \times \frac{\cancel{4}^2}{3}$  $= \frac{5 \times 2}{3 \times 3} = \frac{10}{9}$	$\frac{3}{8} \times \frac{4}{5}$
$\frac{\cancel{1}^1 \cancel{2}^2 \cancel{6}^3}{\cancel{3}} \times \frac{\cancel{1}^1 \cancel{3}^2}{5}$  $= \frac{1 \times 1}{4 \times 5} = \frac{1}{5}$	$\frac{4}{6} \times \frac{9}{5}$
$\frac{\cancel{1}^1 \cancel{7}^2 \cancel{6}^3}{\cancel{3}} \times \frac{\cancel{2}^2 \cancel{4}^3 \cancel{7}^1}{\cancel{1}}$  $= \frac{1 \times 3}{2 \times 1} = \frac{3}{2}$	$\frac{7}{6} \times \frac{3}{14}$
$\frac{\cancel{3}^3 \cancel{6}^5 \cancel{35}^7}{5} \times \frac{\cancel{3}^3 \cancel{15}^7 \cancel{14}^2}{7} \times \frac{\cancel{3}^3 \cancel{21}^2 \cancel{10}^1}{2}$  $= \frac{3 \times 3 \times 3}{5 \times 7 \times 2} = \frac{27}{70}$	$\frac{3}{4} \times \frac{2}{15} \times \frac{10}{21}$
$\frac{4}{7} \times 6$ $(6 = \frac{6}{1})$  $= \frac{4 \times 6}{7 \times 1} = \frac{24}{7}$	$\frac{4}{7} \times 2$
$\frac{5}{\cancel{6}_3} \times \frac{\cancel{2}^2 4}{\cancel{4}_1}$ $(2 = \frac{2}{1})$  $= \frac{5 \times 2}{3 \times 1} = \frac{10}{3}$	$\frac{5}{4} \times 6$

3. 次の分数の計算をせよ。 Calculate the following fractions.

れいだい 例題	もんだい 問題
$\frac{4}{5} \div \frac{7}{6}$  $= \left( \frac{4}{5} \times \frac{6}{7} \right) \div \left( \frac{7}{6} \times \frac{6}{7} \right)$  $= \frac{4}{5} \times \frac{6}{7} \div 1 = \frac{24}{35}$	$\frac{3}{4} \div \frac{5}{3}$
$\frac{3}{5} \div 2$ $(2 = \frac{2}{1})$  $= \left( \frac{3}{5} \times \frac{1}{2} \right) \div \left( \frac{2}{1} \times \frac{1}{2} \right)$  $= \frac{3}{5} \times \frac{1}{2} \div 1 = \frac{3}{10}$	$\frac{5}{7} \div 3$

4. 次の分数の割り算をせよ。 Calculate the division of the following fractions.

れいだい 例題	もんだい 問題
$\frac{2}{3} \div \frac{7}{5}$  $= \frac{2}{3} \times \frac{5}{7}$  $= \frac{2 \times 5}{3 \times 7} = \frac{10}{21}$	$\frac{7}{6} \div \frac{3}{5}$
$\frac{2}{4} \div \frac{7}{5}$  $= \frac{\cancel{2}^1 \cancel{4}^2}{\cancel{4}_2} \times \frac{5}{7}$  $= \frac{1 \times 5}{2 \times 7} = \frac{5}{14}$	$\frac{4}{6} \div \frac{5}{3}$
$\frac{3}{8} \div \frac{9}{5}$  $= \frac{\cancel{1}^1 \cancel{3}^2}{\cancel{8}_3} \times \frac{5}{\cancel{9}_3}$  $= \frac{1 \times 5}{8 \times 3} = \frac{5}{24}$	$\frac{5}{6} \div \frac{4}{9}$
$\frac{3}{4} \div \frac{7}{8}$  $= \frac{3}{\cancel{4}_1} \times \frac{\cancel{2}^2 \cancel{8}^3}{7}$  $= \frac{3 \times 2}{1 \times 7} = \frac{6}{7}$	$\frac{5}{3} \div \frac{7}{6}$
$\frac{20}{3} \div 6$  $= \frac{\cancel{10}^1 \cancel{20}^2}{3} \times \frac{1}{\cancel{6}_3}$  $= \frac{10 \times 1}{3 \times 3} = \frac{10}{9}$	$\frac{4}{3} \div 8$

1. 次の分数の約分をせよ。 Reduce the following fraction.

れいだい 例題	もんだい 問題
$\frac{10}{15}$ $= \frac{5 \times 2}{5 \times 3} = \frac{2}{3}$	$\frac{14}{21}$
$\frac{20}{8}$ $= \frac{4 \times 5}{4 \times 2} = \frac{5}{2}$	$\frac{15}{20}$
$\frac{28}{7}$ $= \frac{7 \times 4}{7 \times 1} = \frac{4}{1} = 4$	$\frac{35}{7}$

2. 次の分数の掛け算をせよ。 Multiply the following fractions.

れいだい 例題	もんだい 問題
$\frac{2}{3} \times \frac{5}{7}$ $= \frac{2 \times 5}{3 \times 7} = \frac{10}{21}$	$\frac{5}{6} \times \frac{3}{7}$
$\frac{1}{4} \times \frac{3}{8}$ $= \frac{1 \times 3}{4 \times 8} = \frac{3}{32}$	$\frac{2}{8} \times \frac{5}{9}$
$\frac{5}{6} \times \frac{4}{3}$ $= \frac{5 \times 4}{6 \times 3} = \frac{20}{18} = \frac{10}{9}$	$\frac{3}{10} \times \frac{4}{5}$
$\frac{1}{2} \times \frac{1}{5}$ $= \frac{1 \times 1}{2 \times 5} = \frac{1}{10}$	$\frac{3}{6} \times \frac{4}{5}$
$\frac{1}{10} \times \frac{1}{14}$ $= \frac{1 \times 1}{10 \times 14} = \frac{1}{140}$	$\frac{5}{6} \times \frac{9}{10}$
$\frac{3}{20} \times \frac{12}{35} \times \frac{15}{26}$ $= \frac{3 \times 3 \times 3}{5 \times 7 \times 2} = \frac{27}{70}$	$\frac{3}{4} \times \frac{2}{21} \times \frac{7}{6}$
$\frac{3}{2} \times 5$ $= \frac{3 \times 5}{2 \times 1} = \frac{15}{2}$	$\frac{5}{3} \times 4$
$\frac{5}{2} \times \frac{2}{4}$ $= \frac{5 \times 2}{2 \times 4} = \frac{10}{8} = \frac{5}{4}$	$\frac{5}{4} \times 6$

3. 次の分数の計算をせよ。 Calculate the following fractions.

れいだい 例題	もんだい 問題
$\frac{4}{5} \div \frac{3}{2}$ $= \left( \frac{4}{5} \times \frac{2}{3} \right) \div \left( \frac{3}{2} \times \frac{2}{3} \right)$ $= \frac{4}{5} \times \frac{2}{3} \div 1 = \frac{8}{15}$	$\frac{3}{4} \div \frac{7}{5}$
$\frac{4}{5} \div 3$ $= \left( \frac{4}{5} \times \frac{1}{3} \right) \div \left( \frac{3}{1} \times \frac{1}{3} \right)$ $= \frac{4}{5} \times \frac{1}{3} \div 1 = \frac{4}{15}$	$\frac{5}{6} \div 2$

4. 次の分数の割り算をせよ。 Calculate the division of the following fractions.

れいだい 例題	もんだい 問題
$\frac{3}{2} \div \frac{5}{7}$ $= \frac{3}{2} \times \frac{7}{5}$ $= \frac{3 \times 7}{2 \times 5} = \frac{21}{10}$	$\frac{7}{4} \div \frac{2}{3}$
$\frac{6}{3} \div \frac{7}{5}$ $= \frac{6}{3} \times \frac{5}{7}$ $= \frac{2 \times 5}{1 \times 7} = \frac{10}{7}$	$\frac{9}{3} \div \frac{5}{2}$
$\frac{3}{7} \div \frac{9}{4}$ $= \frac{3}{7} \times \frac{4}{9}$ $= \frac{1 \times 4}{7 \times 3} = \frac{4}{21}$	$\frac{8}{5} \div \frac{6}{7}$
$\frac{5}{6} \div \frac{7}{8}$ $= \frac{5}{6} \times \frac{8}{7}$ $= \frac{5 \times 4}{3 \times 7} = \frac{20}{21}$	$\frac{5}{6} \div \frac{2}{9}$
$\frac{15}{4} \div 5$ $= \frac{15}{4} \times \frac{1}{5}$ $= \frac{3 \times 1}{4 \times 1} = \frac{3}{4}$	$\frac{4}{5} \div 2$