

6年
2
(1)

分数のわり算

___年 ___組
名前

途中で約分ができる場合は、約分をして計算をしましょう。

1 わり算をしましょう。

$$\textcircled{1} \quad \frac{1}{3} \div 5 = \frac{1 \times 1}{3 \times 5} = \frac{1}{15}$$

$$\textcircled{2} \quad \frac{3}{8} \div 5 = \frac{3 \times 1}{8 \times 5} = \frac{3}{40}$$

$$\textcircled{3} \quad \frac{9}{4} \div 4 = \frac{9 \times 1}{4 \times 4} = \frac{9}{16}$$

$$\textcircled{4} \quad \frac{2}{7} \div 14 = \frac{\boxed{2} \times 1}{7 \times \boxed{14}} = \frac{1}{49}$$

$$\textcircled{5} \quad \frac{16}{9} \div 4 = \frac{\boxed{16} \times 1}{9 \times \boxed{4}} = \frac{4}{9}$$

$$\textcircled{6} \quad \frac{15}{4} \div 3 = \frac{\boxed{15} \times 1}{4 \times \boxed{3}} = \frac{5}{4} \left(1 \frac{1}{4}\right)$$

$$\textcircled{7} \quad \frac{24}{11} \div 8 = \frac{\boxed{24} \times 1}{11 \times \boxed{8}} = \frac{3}{11}$$

$$\textcircled{8} \quad 2 \frac{2}{3} \div 4 = \frac{\boxed{8} \times 1}{3 \times \boxed{4}} = \frac{2}{3}$$

$$\textcircled{9} \quad 7 \frac{1}{2} \div 3 = \frac{\boxed{15} \times 1}{2 \times \boxed{3}} = \frac{5}{2} \left(2 \frac{1}{2}\right)$$

$$\textcircled{10} \quad 6 \frac{3}{4} \div 6 = \frac{\boxed{27} \times 1}{4 \times \boxed{6}} = \frac{9}{8} \left(1 \frac{1}{8}\right)$$

$$\textcircled{11} \quad 3 \div \frac{4}{5} = \frac{3 \times 5}{1 \times 4} = \frac{15}{4} \left(3 \frac{3}{4}\right)$$

$$\textcircled{12} \quad 4 \div \frac{5}{7} = \frac{4 \times 7}{1 \times 5} = \frac{28}{5} \left(5 \frac{3}{5}\right)$$

$$\textcircled{13} \quad 5 \div \frac{3}{4} = \frac{5 \times 4}{1 \times 3} = \frac{20}{3} \left(6 \frac{2}{3}\right)$$

$$\textcircled{14} \quad 9 \div \frac{3}{5} = \frac{\boxed{9} \times 5}{1 \times \boxed{3}} = 15$$

$$\textcircled{15} \quad 10 \div \frac{2}{3} = \frac{\boxed{10} \times 3}{1 \times \boxed{2}} = 15$$

$$\textcircled{16} \quad 24 \div \frac{9}{7} = \frac{\boxed{24} \times 7}{1 \times \boxed{9}} = \frac{56}{3} \left(18 \frac{2}{3}\right)$$

$$\textcircled{17} \quad 18 \div \frac{6}{11} = \frac{\boxed{18} \times 11}{1 \times \boxed{6}} = 33$$

$$\textcircled{18} \quad 3 \div 2 \frac{1}{3} = \frac{3 \times 3}{1 \times 7} = \frac{9}{7} \left(1 \frac{2}{7}\right)$$

$$\textcircled{19} \quad 6 \div 1 \frac{4}{5} = \frac{\boxed{6} \times 5}{1 \times \boxed{9}} = \frac{10}{3} \left(3 \frac{1}{3}\right)$$

$$\textcircled{20} \quad 4 \div 2 \frac{2}{7} = \frac{\boxed{4} \times 7}{1 \times \boxed{16}} = \frac{7}{4} \left(1 \frac{3}{4}\right)$$

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$$\textcircled{1} \quad \frac{1}{5} \div \frac{2}{3} = \frac{1 \times 3}{5 \times 2} = \frac{3}{10}$$

$$\textcircled{2} \quad \frac{3}{4} \div \frac{2}{5} = \frac{3 \times 5}{4 \times 2} = \frac{15}{8} \left(1 \frac{7}{8}\right)$$

$$\textcircled{3} \quad \frac{3}{8} \div \frac{2}{7} = \frac{3 \times 7}{8 \times 2} = \frac{21}{16} \left(1 \frac{5}{16}\right)$$

$$\textcircled{4} \quad \frac{2}{3} \div \frac{3}{5} = \frac{2 \times 5}{3 \times 3} = \frac{10}{9} \left(1 \frac{1}{9}\right)$$

$$\textcircled{5} \quad \frac{1}{2} \div \frac{3}{7} = \frac{1 \times 7}{2 \times 3} = \frac{7}{6} \left(1 \frac{1}{6}\right)$$

$$\textcircled{6} \quad \frac{1}{5} \div \frac{3}{2} = \frac{1 \times 2}{5 \times 3} = \frac{2}{15}$$

$$\textcircled{7} \quad \frac{1}{7} \div \frac{4}{3} = \frac{1 \times 3}{7 \times 4} = \frac{3}{28}$$

$$\textcircled{8} \quad \frac{4}{9} \div \frac{3}{2} = \frac{4 \times 2}{9 \times 3} = \frac{8}{27}$$

$$\textcircled{9} \quad \frac{9}{7} \div \frac{5}{4} = \frac{9 \times 4}{7 \times 5} = \frac{36}{35} \left(1 \frac{1}{35}\right)$$

$$\textcircled{10} \quad \frac{9}{8} \div \frac{7}{5} = \frac{9 \times 5}{8 \times 7} = \frac{45}{56}$$

$$\textcircled{11} \quad \frac{6}{7} \div \frac{3}{5} = \frac{\boxed{6} \times 5}{7 \times \boxed{3}} = \frac{2 \times 5}{7 \times 1} = \frac{10}{7} \left(1 \frac{3}{7}\right)$$

$$\textcircled{12} \quad \frac{2}{3} \div \frac{8}{7} = \frac{\boxed{2} \times 7}{3 \times \boxed{8}} = \frac{1 \times 7}{3 \times 4} = \frac{7}{12}$$

$$\textcircled{13} \quad \frac{3}{10} \div \frac{5}{2} = \frac{3 \times \boxed{2}}{\boxed{10} \times 5} = \frac{3 \times 1}{5 \times 5} = \frac{3}{25}$$

$$\textcircled{14} \quad \frac{8}{3} \div \frac{12}{5} = \frac{\boxed{8} \times 5}{3 \times \boxed{12}} = \frac{2 \times 5}{3 \times 3} = \frac{10}{9} \left(1 \frac{1}{9}\right)$$

$$\textcircled{15} \quad \frac{5}{16} \div \frac{3}{4} = \frac{5 \times \boxed{4}}{\boxed{16} \times 3} = \frac{5 \times 1}{4 \times 3} = \frac{5}{12}$$

$$\textcircled{16} \quad \frac{4}{3} \div \frac{2}{3} = \frac{\boxed{4} \times \boxed{3}}{\boxed{3} \times \boxed{2}} = \frac{2 \times 1}{1 \times 1} = 2$$

$$\textcircled{17} \quad \frac{3}{5} \div \frac{9}{10} = \frac{\boxed{3} \times \boxed{10}}{\boxed{5} \times \boxed{9}} = \frac{1 \times 2}{1 \times 3} = \frac{2}{3}$$

$$\textcircled{18} \quad \frac{3}{4} \div \frac{9}{14} = \frac{\boxed{3} \times \boxed{14}}{\boxed{4} \times \boxed{9}} = \frac{1 \times 7}{2 \times 3} = \frac{7}{6} \left(1 \frac{1}{6}\right)$$

$$\textcircled{19} \quad \frac{9}{50} \div \frac{6}{25} = \frac{\boxed{9} \times \boxed{25}}{\boxed{50} \times \boxed{6}} = \frac{3 \times 1}{2 \times 2} = \frac{3}{4}$$

$$\textcircled{20} \quad \frac{15}{8} \div \frac{3}{16} = \frac{\boxed{15} \times \boxed{16}}{\boxed{8} \times \boxed{3}} = \frac{5 \times 2}{1 \times 1} = 10$$

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$$\begin{aligned} \textcircled{1} \quad \frac{2}{3} \div 2\frac{3}{4} &= \frac{2 \times 4}{3 \times 1 \ 1} \\ &= \frac{8}{3 \ 3} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 7 \div 2\frac{2}{3} &= \frac{7 \times 3}{1 \times 8} \\ &= \frac{2 \ 1}{8} \left(2\frac{5}{8}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad \frac{7}{1 \ 0} \div 1\frac{4}{5} &= \frac{7 \times \boxed{5}}{\boxed{1 \ 0} \times 9} \\ &= \frac{7 \times 1}{2 \times 9} \\ &= \frac{7}{1 \ 8} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad \frac{5}{1 \ 2} \div 1\frac{5}{6} &= \frac{5 \times \boxed{6}}{\boxed{1 \ 2} \times 1 \ 1} \\ &= \frac{5 \times 1}{2 \times 1 \ 1} \\ &= \frac{5}{2 \ 2} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad \frac{9}{1 \ 0} \div 4\frac{1}{5} &= \frac{\boxed{9} \times \boxed{5}}{\boxed{1 \ 0} \times \boxed{2 \ 1}} \\ &= \frac{3 \times 1}{2 \times 7} \\ &= \frac{3}{1 \ 4} \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad 1\frac{2}{3} \div \frac{4}{7} &= \frac{5 \times 7}{3 \times 4} \\ &= \frac{3 \ 5}{1 \ 2} \left(2\frac{1 \ 1}{1 \ 2}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad 2\frac{1}{6} \div \frac{4}{9} &= \frac{1 \ 3 \times \boxed{9}}{\boxed{6} \times 4} \\ &= \frac{1 \ 3 \times 3}{2 \times 4} \\ &= \frac{3 \ 9}{8} \left(4\frac{7}{8}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad 4\frac{2}{3} \div \frac{7}{1 \ 0} &= \frac{\boxed{1 \ 4} \times 1 \ 0}{3 \times \boxed{7}} \\ &= \frac{2 \times 1 \ 0}{3 \times 1} \\ &= \frac{2 \ 0}{3} \left(6\frac{2}{3}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad 3\frac{3}{7} \div \frac{4}{5} &= \frac{\boxed{2 \ 4} \times 5}{7 \times \boxed{4}} \\ &= \frac{6 \times 5}{7 \times 1} \\ &= \frac{3 \ 0}{7} \left(4\frac{2}{7}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad 2\frac{7}{9} \div \frac{5}{6} &= \frac{\boxed{2 \ 5} \times \boxed{6}}{\boxed{9} \times \boxed{5}} \\ &= \frac{5 \times 2}{3 \times 1} \\ &= \frac{1 \ 0}{3} \left(3\frac{1}{3}\right) \end{aligned}$$

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$$\begin{aligned} \textcircled{1} \quad 1\frac{1}{2} \div 1\frac{2}{5} &= \frac{3 \times 5}{2 \times 7} \\ &= \frac{15}{14} \left(1\frac{1}{14}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 2\frac{2}{3} \div 1\frac{4}{7} &= \frac{8 \times 7}{3 \times 11} \\ &= \frac{56}{33} \left(1\frac{23}{33}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad 1\frac{4}{5} \div 2\frac{1}{2} &= \frac{9 \times 2}{5 \times 5} \\ &= \frac{18}{25} \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 1\frac{1}{4} \div 1\frac{1}{2} &= \frac{5 \times \boxed{2}}{\boxed{4} \times 3} \\ &= \frac{5 \times 1}{2 \times 3} \\ &= \frac{5}{6} \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad 3\frac{2}{3} \div 2\frac{3}{4} &= \frac{\boxed{11} \times 4}{3 \times \boxed{11}} \\ &= \frac{1 \times 4}{3 \times 1} \\ &= \frac{4}{3} \left(1\frac{1}{3}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad 3\frac{3}{8} \div 1\frac{2}{7} &= \frac{\boxed{27} \times 7}{8 \times \boxed{9}} \\ &= \frac{3 \times 7}{8 \times 1} \\ &= \frac{21}{8} \left(2\frac{5}{8}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad 2\frac{7}{10} \div 5\frac{2}{5} &= \frac{\boxed{27} \times \boxed{5}}{\boxed{10} \times \boxed{27}} \\ &= \frac{1 \times 1}{2 \times 1} \\ &= \frac{1}{2} \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad 3\frac{1}{6} \div 1\frac{1}{18} &= \frac{\boxed{19} \times \boxed{18}}{\boxed{6} \times \boxed{19}} \\ &= \frac{1 \times 3}{1 \times 1} \\ &= 3 \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad 1\frac{8}{15} \div 3\frac{5}{6} &= \frac{\boxed{23} \times \boxed{6}}{\boxed{15} \times \boxed{23}} \\ &= \frac{1 \times 2}{5 \times 1} \\ &= \frac{2}{5} \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad 2\frac{2}{25} \div 4\frac{4}{5} &= \frac{\boxed{52} \times \boxed{5}}{\boxed{25} \times \boxed{24}} \\ &= \frac{13 \times 1}{5 \times 6} \\ &= \frac{13}{30} \end{aligned}$$

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1 □に当てはまる不等号をかきましょう。

① $5 \div \frac{3}{4}$ > 5

わられる数

わる数

1より小さい数でわると、商はわられる数よりも大きくなります。

② $\frac{9}{11} \div \frac{6}{5}$ < $\frac{9}{11}$

③ $10 \div 1\frac{1}{3}$ < 10

④ $\frac{3}{13} \div \frac{19}{20}$ > $\frac{3}{13}$

⑤ $4\frac{3}{4} \div \frac{25}{24}$ < $4\frac{3}{4}$

2 計算をしましょう。

① $\frac{3}{10} \div 1\frac{3}{5} \times \frac{4}{9} = \frac{3 \times \boxed{5} \times 4}{10 \times 8 \times 9}$
 $= \frac{1 \times 1 \times 1}{2 \times 2 \times 3}$
 $= \frac{1}{12}$

約分の例

② $\frac{3}{4} \div \frac{6}{7} \times \frac{4}{7} = \frac{3 \times \boxed{7} \times 4}{4 \times 6 \times 7}$
 $= \frac{1 \times 1 \times 1}{1 \times 2 \times 1}$
 $= \frac{1}{2}$

③ $\frac{3}{5} \div \frac{2}{9} \div 1\frac{1}{2} = \frac{3 \times 9 \times \boxed{2}}{5 \times \boxed{2} \times 3}$
 $= \frac{1 \times 9 \times 1}{5 \times 1 \times 1}$
 $= \frac{9}{5} (1\frac{4}{5})$

④ $\frac{5}{8} \div \frac{15}{16} \div \frac{4}{5} = \frac{5 \times \boxed{16} \times 5}{8 \times 15 \times 4}$
 $= \frac{1 \times \boxed{2} \times 5}{1 \times 3 \times \boxed{4}}$
 $= \frac{5}{6}$

⑤ $\frac{3}{8} \div 3 \times \frac{16}{17} = \frac{3 \times 1 \times \boxed{16}}{8 \times 3 \times 17}$
 $= \frac{1 \times 1 \times 2}{1 \times 1 \times 17}$
 $= \frac{2}{17}$