

6年

1

(1)

分数のかけ算

\_\_\_年 \_\_\_組

名前

途中で約分をして、計算をしましょう。

1 かけ算をしましょう。

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

$$\textcircled{2} \quad \frac{4}{5} \times 6 = \frac{4 \times 6}{5 \times 1} = \frac{24}{5} \left(4 \frac{4}{5}\right)$$

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

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

$$\textcircled{5} \quad \frac{9}{2} \times 10 = \frac{9 \times \boxed{10}}{\boxed{2} \times 1} = 45$$

$$\textcircled{6} \quad \frac{8}{15} \times 5 = \frac{8 \times \boxed{5}}{\boxed{15} \times 1} = \frac{8}{3} \left(2 \frac{2}{3}\right)$$

$$\textcircled{7} \quad \frac{5}{18} \times 9 = \frac{5 \times \boxed{9}}{\boxed{18} \times 1} = \frac{5}{2} \left(2 \frac{1}{2}\right)$$

$$\textcircled{8} \quad 1 \frac{2}{5} \times 6 = \frac{7 \times 6}{5 \times 1} = \frac{42}{5} \left(8 \frac{2}{5}\right)$$

$$\textcircled{9} \quad 1 \frac{3}{4} \times 8 = \frac{7 \times \boxed{8}}{\boxed{4} \times 1} = 14$$

$$\textcircled{10} \quad 3 \frac{1}{6} \times 4 = \frac{19 \times \boxed{4}}{\boxed{6} \times 1} = \frac{38}{3} \left(12 \frac{2}{3}\right)$$

$$\textcircled{11} \quad 2 \times \frac{2}{5} = \frac{2 \times 2}{1 \times 5} = \frac{4}{5}$$

$$\textcircled{12} \quad 5 \times \frac{4}{7} = \frac{5 \times 4}{1 \times 7} = \frac{20}{7} \left(2 \frac{6}{7}\right)$$

$$\textcircled{13} \quad 7 \times \frac{4}{5} = \frac{7 \times 4}{1 \times 5} = \frac{28}{5} \left(5 \frac{3}{5}\right)$$

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

$$\textcircled{15} \quad 12 \times \frac{8}{15} = \frac{\boxed{12} \times 8}{1 \times \boxed{15}} = \frac{32}{5} \left(6 \frac{2}{5}\right)$$

$$\textcircled{16} \quad 6 \times \frac{11}{10} = \frac{\boxed{6} \times 11}{1 \times \boxed{10}} = \frac{33}{5} \left(6 \frac{3}{5}\right)$$

$$\textcircled{17} \quad 18 \times \frac{4}{3} = \frac{\boxed{18} \times 4}{1 \times \boxed{3}} = 24$$

$$\textcircled{18} \quad 3 \times 1 \frac{3}{4} = \frac{3 \times 7}{1 \times 4} = \frac{21}{4} \left(5 \frac{1}{4}\right)$$

$$\textcircled{19} \quad 4 \times 2 \frac{1}{6} = \frac{\boxed{4} \times 13}{1 \times \boxed{6}} = \frac{26}{3} \left(8 \frac{2}{3}\right)$$

$$\textcircled{20} \quad 6 \times 4 \frac{2}{3} = \frac{\boxed{6} \times 14}{1 \times \boxed{3}} = 28$$

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1 かけ算をしましょう。

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

$$\textcircled{2} \quad \frac{2}{3} \times \frac{4}{5} = \frac{2 \times 4}{3 \times 5} = \frac{8}{15}$$

$$\textcircled{3} \quad \frac{4}{7} \times \frac{1}{3} = \frac{4 \times 1}{7 \times 3} = \frac{4}{21}$$

$$\textcircled{4} \quad \frac{3}{5} \times \frac{7}{8} = \frac{3 \times 7}{5 \times 8} = \frac{21}{40}$$

$$\textcircled{5} \quad \frac{4}{9} \times \frac{2}{3} = \frac{4 \times 2}{9 \times 3} = \frac{8}{27}$$

$$\textcircled{6} \quad \frac{1}{3} \times \frac{5}{4} = \frac{1 \times 5}{3 \times 4} = \frac{5}{12}$$

$$\textcircled{7} \quad \frac{5}{6} \times \frac{5}{3} = \frac{5 \times 5}{6 \times 3} = \frac{25}{18} \left(1 \frac{7}{18}\right)$$

$$\textcircled{8} \quad \frac{3}{5} \times \frac{3}{2} = \frac{3 \times 3}{5 \times 2} = \frac{9}{10}$$

$$\textcircled{9} \quad \frac{5}{7} \times \frac{3}{2} = \frac{5 \times 3}{7 \times 2} = \frac{15}{14} \left(1 \frac{1}{14}\right)$$

$$\textcircled{10} \quad \frac{8}{9} \times \frac{4}{3} = \frac{8 \times 4}{9 \times 3} = \frac{32}{27} \left(1 \frac{5}{27}\right)$$

$$\textcircled{11} \quad \frac{5}{4} \times \frac{1}{6} = \frac{5 \times 1}{4 \times 6} = \frac{5}{24}$$

$$\textcircled{12} \quad \frac{4}{3} \times \frac{2}{5} = \frac{4 \times 2}{3 \times 5} = \frac{8}{15}$$

$$\textcircled{13} \quad \frac{7}{6} \times \frac{5}{8} = \frac{7 \times 5}{6 \times 8} = \frac{35}{48}$$

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

$$\textcircled{15} \quad \frac{7}{8} \times \frac{7}{6} = \frac{7 \times 7}{8 \times 6} = \frac{49}{48} \left(1 \frac{1}{48}\right)$$

$$\textcircled{16} \quad \frac{3}{2} \times \frac{7}{5} = \frac{3 \times 7}{2 \times 5} = \frac{21}{10} \left(2 \frac{1}{10}\right)$$

$$\textcircled{17} \quad \frac{5}{4} \times \frac{9}{8} = \frac{5 \times 9}{4 \times 8} = \frac{45}{32} \left(1 \frac{13}{32}\right)$$

$$\textcircled{18} \quad \frac{8}{5} \times \frac{7}{9} = \frac{8 \times 7}{5 \times 9} = \frac{56}{45} \left(1 \frac{11}{45}\right)$$

$$\textcircled{19} \quad \frac{9}{5} \times \frac{8}{7} = \frac{9 \times 8}{5 \times 7} = \frac{72}{35} \left(2 \frac{2}{35}\right)$$

$$\textcircled{20} \quad \frac{10}{9} \times \frac{4}{3} = \frac{10 \times 4}{9 \times 3} = \frac{40}{27} \left(1 \frac{13}{27}\right)$$

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途中で約分をして、計算をしましょう。

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

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

$$\textcircled{3} \quad \frac{4}{9} \times \frac{1}{12} = \frac{\boxed{4} \times 1}{9 \times \boxed{12}} = \frac{1 \times 1}{9 \times 3} = \frac{1}{27}$$

$$\textcircled{4} \quad \frac{1}{4} \times \frac{6}{7} = \frac{1 \times \boxed{6}}{\boxed{4} \times 7} = \frac{1 \times 3}{2 \times 7} = \frac{3}{14}$$

$$\textcircled{5} \quad \frac{5}{12} \times \frac{4}{9} = \frac{5 \times \boxed{4}}{\boxed{12} \times 9} = \frac{5 \times 1}{3 \times 9} = \frac{5}{27}$$

$$\textcircled{6} \quad \frac{7}{6} \times \frac{9}{2} = \frac{7 \times \boxed{9}}{\boxed{6} \times 2} = \frac{7 \times 3}{2 \times 2} = \frac{21}{4} \quad (5\frac{1}{4})$$

$$\textcircled{7} \quad \frac{5}{4} \times \frac{4}{7} = \frac{5 \times \boxed{4}}{\boxed{4} \times 7} = \frac{5 \times 1}{1 \times 7} = \frac{5}{7}$$

$$\textcircled{8} \quad \frac{7}{10} \times \frac{8}{9} = \frac{7 \times \boxed{8}}{\boxed{10} \times 9} = \frac{7 \times 4}{5 \times 9} = \frac{28}{45}$$

$$\textcircled{9} \quad \frac{6}{11} \times \frac{3}{2} = \frac{\boxed{6} \times 3}{11 \times \boxed{2}} = \frac{3 \times 3}{11 \times 1} = \frac{9}{11}$$

$$\textcircled{10} \quad \frac{8}{7} \times \frac{5}{16} = \frac{\boxed{8} \times 5}{7 \times \boxed{16}} = \frac{1 \times 5}{7 \times 2} = \frac{5}{14}$$

$$\textcircled{11} \quad \frac{3}{4} \times \frac{8}{9} = \frac{\boxed{3} \times \boxed{8}}{\boxed{4} \times 9} = \frac{1 \times 2}{1 \times 3} = \frac{2}{3}$$

$$\textcircled{12} \quad \frac{5}{8} \times \frac{2}{5} = \frac{\boxed{5} \times \boxed{2}}{\boxed{8} \times \boxed{5}} = \frac{1 \times 1}{4 \times 1} = \frac{1}{4}$$

$$\textcircled{13} \quad \frac{4}{9} \times \frac{3}{2} = \frac{\boxed{4} \times \boxed{3}}{\boxed{9} \times 2} = \frac{2 \times 1}{3 \times 1} = \frac{2}{3}$$

$$\textcircled{14} \quad \frac{6}{5} \times \frac{5}{12} = \frac{\boxed{6} \times \boxed{5}}{\boxed{5} \times \boxed{12}} = \frac{1 \times 1}{1 \times 2} = \frac{1}{2}$$

$$\textcircled{15} \quad \frac{10}{21} \times \frac{9}{16} = \frac{\boxed{10} \times \boxed{9}}{\boxed{21} \times \boxed{16}} = \frac{5 \times 3}{7 \times 8} = \frac{15}{56}$$

$$\textcircled{16} \quad \frac{9}{14} \times \frac{7}{18} = \frac{\boxed{9} \times \boxed{7}}{\boxed{14} \times \boxed{18}} = \frac{1 \times 1}{2 \times 2} = \frac{1}{4}$$

$$\textcircled{17} \quad \frac{6}{5} \times \frac{15}{8} = \frac{\boxed{6} \times \boxed{15}}{\boxed{5} \times \boxed{8}} = \frac{3 \times 3}{1 \times 4} = \frac{9}{4} \quad (2\frac{1}{4})$$

$$\textcircled{18} \quad \frac{15}{14} \times \frac{7}{24} = \frac{\boxed{15} \times \boxed{7}}{\boxed{14} \times \boxed{24}} = \frac{5 \times 1}{2 \times 8} = \frac{5}{16}$$

$$\textcircled{19} \quad \frac{22}{9} \times \frac{18}{11} = \frac{\boxed{22} \times \boxed{18}}{\boxed{9} \times \boxed{11}} = \frac{2 \times 2}{1 \times 1} = 4$$

$$\textcircled{20} \quad \frac{25}{18} \times \frac{27}{10} = \frac{\boxed{25} \times \boxed{27}}{\boxed{18} \times \boxed{10}} = \frac{5 \times 3}{2 \times 2} = \frac{15}{4}$$

$(3\frac{3}{4})$

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途中で約分ができる場合は、約分をして計算しましょう。

$$\begin{aligned} \textcircled{1} \quad 1\frac{1}{3} \times \frac{7}{9} &= \frac{4 \times 7}{3 \times 9} \\ &= \frac{28}{27} \left(1\frac{1}{27}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad 3\frac{5}{6} \times \frac{1}{4} &= \frac{23 \times 1}{6 \times 4} \\ &= \frac{23}{24} \end{aligned}$$

$$\begin{aligned} \textcircled{3} \quad 2\frac{4}{7} \times \frac{5}{6} &= \frac{18 \times 5}{7 \times 6} \\ &= \frac{3 \times 5}{7 \times 1} \\ &= \frac{15}{7} \left(2\frac{1}{7}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{4} \quad 4\frac{3}{8} \times \frac{3}{7} &= \frac{35 \times 3}{8 \times 7} \\ &= \frac{5 \times 3}{8 \times 1} \\ &= \frac{15}{8} \left(1\frac{7}{8}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{5} \quad 3\frac{3}{4} \times \frac{3}{5} &= \frac{15 \times 3}{4 \times 5} \\ &= \frac{3 \times 3}{4 \times 1} \\ &= \frac{9}{4} \left(2\frac{1}{4}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{6} \quad \frac{8}{15} \times 1\frac{1}{4} &= \frac{8 \times 5}{15 \times 4} \\ &= \frac{2 \times 1}{3 \times 1} \\ &= \frac{2}{3} \end{aligned}$$

$$\begin{aligned} \textcircled{7} \quad \frac{5}{9} \times 3\frac{3}{5} &= \frac{5 \times 18}{9 \times 5} \\ &= \frac{1 \times 2}{1 \times 1} \\ &= 2 \end{aligned}$$

$$\begin{aligned} \textcircled{8} \quad 1\frac{1}{4} \times 1\frac{2}{3} &= \frac{5 \times 5}{4 \times 3} \\ &= \frac{25}{12} \left(2\frac{1}{12}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{9} \quad 2\frac{7}{10} \times 1\frac{1}{3} &= \frac{27 \times 4}{10 \times 3} \\ &= \frac{9 \times 2}{5 \times 1} \\ &= \frac{18}{5} \left(3\frac{3}{5}\right) \end{aligned}$$

$$\begin{aligned} \textcircled{10} \quad 4\frac{1}{2} \times 3\frac{1}{3} &= \frac{9 \times 10}{2 \times 3} \\ &= \frac{3 \times 5}{1 \times 1} \\ &= 15 \end{aligned}$$

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1 くふうして計算をしましょう。

$$\textcircled{1} \frac{2}{3} \times \frac{1}{2} \times \frac{6}{7} = \frac{2 \times 1 \times 6}{3 \times 2 \times 7} = \frac{2}{7}$$

$$\textcircled{2} \frac{5}{6} \times \frac{3}{7} \times \frac{14}{15} = \frac{5 \times 3 \times 14}{6 \times 7 \times 15} = \frac{1}{3}$$

$$\textcircled{3} 1\frac{3}{4} \times 8 \times \frac{5}{14} = \frac{7 \times 8 \times 5}{4 \times 1 \times 14} = 5$$

$$\textcircled{4} \frac{5}{11} \times 3\frac{1}{7} \times \frac{14}{5} = \frac{5 \times 22 \times 14}{11 \times 7 \times 5} = 4$$

$$\textcircled{5} \left(\frac{7}{8} \times \frac{5}{6}\right) \times \frac{8}{7} = \frac{5}{6} \times \left(\frac{7}{8} \times \frac{8}{7}\right) = \frac{5}{6}$$

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

$$\textcircled{7} \left(\frac{3}{4} + \frac{2}{5}\right) \times 20 = \frac{3}{4} \times 20 + \frac{2}{5} \times 20 = 23$$

$$\textcircled{8} \left(\frac{5}{7} \times \frac{5}{9}\right) \times \frac{9}{5} = \frac{5}{7} \times \left(\frac{5}{9} \times \frac{9}{5}\right) = \frac{5}{7}$$

$$\textcircled{9} \frac{3}{7} \times \frac{5}{6} + \frac{4}{7} \times \frac{5}{6} = \left(\frac{3}{7} + \frac{4}{7}\right) \times \frac{5}{6} = \frac{5}{6}$$

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

2 次の数の逆数を求めましょう。

$$\textcircled{1} \frac{3}{5} \quad \left( \frac{5}{3} \right)$$

※真分数や仮分数の逆数は、分子と分母を入れかえた数になります。

$$\textcircled{2} \frac{9}{2} \quad \left( \frac{2}{9} \right)$$

$$\textcircled{3} \frac{11}{3} \quad \left( \frac{3}{11} \right)$$

$$\textcircled{4} \frac{1}{8} \quad \left( 8 \right)$$

$$\textcircled{5} 1\frac{3}{4} \quad \left( \frac{4}{7} \right)$$

$1\frac{3}{4} = \frac{7}{4}$  なので、逆数は  $\frac{4}{7}$

$$\textcircled{6} 2\frac{2}{3} \quad \left( \frac{3}{8} \right)$$

$$\textcircled{7} 3 \quad \left( \frac{1}{3} \right)$$

$3 = \frac{3}{1}$  なので、逆数は  $\frac{1}{3}$

$$\textcircled{8} 8 \quad \left( \frac{1}{8} \right)$$

$$\textcircled{9} 0.3 \quad \left( \frac{10}{3} \right)$$

$0.3 = \frac{3}{10}$  なので、逆数は  $\frac{10}{3}$

$$\textcircled{10} 0.7 \quad \left( \frac{10}{7} \right)$$