6年
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分数のかけ算

___年　___組

名前

1　かけ算をしましょう。

① $\dfrac{1}{2} \times \dfrac{3}{4} = \dfrac{1 \times 3}{2 \times 4} = \dfrac{3}{8}$

② $\dfrac{2}{3} \times \dfrac{4}{5} = \dfrac{2 \times 4}{3 \times 5} = \dfrac{8}{15}$

③ $\dfrac{4}{7} \times \dfrac{1}{3} = \dfrac{4 \times 1}{7 \times 3} = \dfrac{4}{21}$

④ $\dfrac{3}{5} \times \dfrac{7}{8} = \dfrac{3 \times 7}{5 \times 8} = \dfrac{21}{40}$

⑤ $\dfrac{4}{9} \times \dfrac{2}{3} = \dfrac{4 \times 2}{9 \times 3} = \dfrac{8}{27}$

⑥ $\dfrac{1}{3} \times \dfrac{5}{4} = \dfrac{1 \times 5}{3 \times 4} = \dfrac{5}{12}$

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

⑧ $\dfrac{3}{5} \times \dfrac{3}{2} = \dfrac{3 \times 3}{5 \times 2} = \dfrac{9}{10}$

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

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

⑪ $\dfrac{5}{4} \times \dfrac{1}{6} = \dfrac{5 \times 1}{4 \times 6} = \dfrac{5}{24}$

⑫ $\dfrac{4}{3} \times \dfrac{2}{5} = \dfrac{4 \times 2}{3 \times 5} = \dfrac{8}{15}$

⑬ $\dfrac{7}{6} \times \dfrac{5}{8} = \dfrac{7 \times 5}{6 \times 8} = \dfrac{35}{48}$

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

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

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

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

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

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

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

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分数のかけ算

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途中で約分をして、計算をしましょう。

① $\dfrac{3}{4} \times \dfrac{1}{3} = \dfrac{3 \times 1}{4 \times 3} = \dfrac{1 \times 1}{4 \times 1} = \dfrac{1}{4}$

② $\dfrac{5}{8} \times \dfrac{3}{10} = \dfrac{5 \times 3}{8 \times 10} = \dfrac{1 \times 3}{8 \times 2} = \dfrac{3}{16}$

③ $\dfrac{4}{9} \times \dfrac{1}{12} = \dfrac{4 \times 1}{9 \times 12} = \dfrac{1 \times 1}{9 \times 3} = \dfrac{1}{27}$

④ $\dfrac{1}{4} \times \dfrac{6}{7} = \dfrac{1 \times 6}{4 \times 7} = \dfrac{1 \times 3}{2 \times 7} = \dfrac{3}{14}$

⑤ $\dfrac{5}{12} \times \dfrac{4}{9} = \dfrac{5 \times 4}{12 \times 9} = \dfrac{5 \times 1}{3 \times 9} = \dfrac{5}{27}$

⑥ $\dfrac{7}{6} \times \dfrac{9}{2} = \dfrac{7 \times 9}{6 \times 2} = \dfrac{7 \times 3}{2 \times 2} = \dfrac{21}{4} \left(5\dfrac{1}{4} \right)$

⑦ $\dfrac{5}{4} \times \dfrac{4}{7} = \dfrac{5 \times 4}{4 \times 7} = \dfrac{5 \times 1}{1 \times 7} = \dfrac{5}{7}$

⑧ $\dfrac{7}{10} \times \dfrac{8}{9} = \dfrac{7 \times 8}{10 \times 9} = \dfrac{7 \times 4}{5 \times 9} = \dfrac{28}{45}$

⑨ $\dfrac{6}{11} \times \dfrac{3}{2} = \dfrac{6 \times 3}{11 \times 2} = \dfrac{3 \times 3}{11 \times 1} = \dfrac{9}{11}$

⑩ $\dfrac{8}{7} \times \dfrac{5}{16} = \dfrac{8 \times 5}{7 \times 16} = \dfrac{1 \times 5}{7 \times 2} = \dfrac{5}{14}$

⑪ $\dfrac{3}{4} \times \dfrac{8}{9} = \dfrac{3 \times 8}{4 \times 9} = \dfrac{1 \times 2}{1 \times 3} = \dfrac{2}{3}$

⑫ $\dfrac{5}{8} \times \dfrac{2}{5} = \dfrac{5 \times 2}{8 \times 5} = \dfrac{1 \times 1}{4 \times 1} = \dfrac{1}{4}$

⑬ $\dfrac{4}{9} \times \dfrac{3}{2} = \dfrac{4 \times 3}{9 \times 2} = \dfrac{2 \times 1}{3 \times 1} = \dfrac{2}{3}$

⑭ $\dfrac{6}{5} \times \dfrac{5}{12} = \dfrac{6 \times 5}{5 \times 12} = \dfrac{1 \times 1}{1 \times 2} = \dfrac{1}{2}$

⑮ $\dfrac{10}{21} \times \dfrac{9}{16} = \dfrac{10 \times 9}{21 \times 16} = \dfrac{5 \times 3}{7 \times 8} = \dfrac{15}{56}$

⑯ $\dfrac{9}{14} \times \dfrac{7}{18} = \dfrac{9 \times 7}{14 \times 18} = \dfrac{1 \times 1}{2 \times 2} = \dfrac{1}{4}$

⑰ $\dfrac{6}{5} \times \dfrac{15}{8} = \dfrac{6 \times 15}{5 \times 8} = \dfrac{3 \times 3}{1 \times 4} = \dfrac{9}{4} \left(2\dfrac{1}{4} \right)$

⑱ $\dfrac{15}{14} \times \dfrac{7}{24} = \dfrac{15 \times 7}{14 \times 24} = \dfrac{5 \times 1}{2 \times 8} = \dfrac{5}{16}$

⑲ $\dfrac{22}{9} \times \dfrac{18}{11} = \dfrac{22 \times 18}{9 \times 11} = \dfrac{2 \times 2}{1 \times 1} = 4$

⑳ $\dfrac{25}{18} \times \dfrac{27}{10} = \dfrac{25 \times 27}{18 \times 10} = \dfrac{5 \times 3}{2 \times 2} = \dfrac{15}{4}$

$\left(3\dfrac{3}{4} \right)$

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分数のかけ算

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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。

① $2 \times \dfrac{2}{5} = \dfrac{2 \times 2}{1 \times 5} = \dfrac{4}{5}$

② $5 \times \dfrac{4}{7} = \dfrac{5 \times 4}{1 \times 7} = \dfrac{20}{7} \left(2\dfrac{6}{7}\right)$

③ $8 \times \dfrac{2}{3} = \dfrac{8 \times 2}{1 \times 3} = \dfrac{16}{3} \left(5\dfrac{1}{3}\right)$

④ $7 \times \dfrac{4}{5} = \dfrac{7 \times 4}{1 \times 5} = \dfrac{28}{5} \left(5\dfrac{3}{5}\right)$

⑤ $4 \times \dfrac{1}{2} = \dfrac{\boxed{4} \times 1}{1 \times \boxed{2}} = \dfrac{2 \times 1}{1 \times 1} = 2$

⑥ $6 \times \dfrac{9}{8} = \dfrac{\boxed{6} \times 9}{1 \times \boxed{8}} = \dfrac{3 \times 9}{1 \times 4} = \dfrac{27}{4} \left(6\dfrac{3}{4}\right)$

⑦ $12 \times \dfrac{8}{15} = \dfrac{\boxed{12} \times 8}{1 \times \boxed{15}} = \dfrac{4 \times 8}{1 \times 5} = \dfrac{32}{5} \left(6\dfrac{2}{5}\right)$

⑧ $6 \times \dfrac{11}{10} = \dfrac{\boxed{6} \times 11}{1 \times \boxed{10}} = \dfrac{3 \times 11}{1 \times 5} = \dfrac{33}{5} \left(6\dfrac{3}{5}\right)$

⑨ $9 \times \dfrac{7}{6} = \dfrac{\boxed{9} \times 7}{1 \times \boxed{6}} = \dfrac{3 \times 7}{1 \times 2} = \dfrac{21}{2} \left(10\dfrac{1}{2}\right)$

⑩ $18 \times \dfrac{4}{3} = \dfrac{\boxed{18} \times 4}{1 \times \boxed{3}} = \dfrac{6 \times 4}{1 \times 1} = 24$

⑪ $\dfrac{1}{7} \times 4 = \dfrac{1 \times 4}{7 \times 1} = \dfrac{4}{7}$

⑫ $\dfrac{4}{5} \times 6 = \dfrac{4 \times 6}{5 \times 1} = \dfrac{24}{5} \left(4\dfrac{4}{5}\right)$

⑬ $\dfrac{5}{4} \times 3 = \dfrac{5 \times 3}{4 \times 1} = \dfrac{15}{4} \left(3\dfrac{3}{4}\right)$

⑭ $\dfrac{5}{6} \times 2 = \dfrac{5 \times \boxed{2}}{\boxed{6} \times 1} = \dfrac{5 \times 1}{3 \times 1} = \dfrac{5}{3} \left(1\dfrac{2}{3}\right)$

⑮ $\dfrac{2}{9} \times 6 = \dfrac{2 \times \boxed{6}}{\boxed{9} \times 1} = \dfrac{2 \times 2}{3 \times 1} = \dfrac{4}{3} \left(1\dfrac{1}{3}\right)$

⑯ $\dfrac{5}{8} \times 4 = \dfrac{5 \times \boxed{4}}{\boxed{8} \times 1} = \dfrac{5 \times 1}{2 \times 1} = \dfrac{5}{2} \left(2\dfrac{1}{2}\right)$

⑰ $\dfrac{9}{2} \times 10 = \dfrac{9 \times \boxed{10}}{\boxed{2} \times 1} = \dfrac{9 \times 5}{1 \times 1} = 45$

⑱ $\dfrac{8}{15} \times 5 = \dfrac{8 \times \boxed{5}}{\boxed{15} \times 1} = \dfrac{8 \times 1}{3 \times 1} = \dfrac{8}{3} \left(2\dfrac{2}{3}\right)$

⑲ $\dfrac{7}{12} \times 10 = \dfrac{7 \times \boxed{10}}{\boxed{12} \times 1} = \dfrac{7 \times 5}{6 \times 1} = \dfrac{35}{6} \left(5\dfrac{5}{6}\right)$

⑳ $\dfrac{5}{18} \times 6 = \dfrac{5 \times \boxed{6}}{\boxed{18} \times 1} = \dfrac{5 \times 1}{3 \times 1} = \dfrac{5}{3} \left(1\dfrac{2}{3}\right)$

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分数のかけ算

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① $1\dfrac{1}{3} \times \dfrac{7}{9} = \dfrac{4 \times 7}{3 \times 9}$

$= \dfrac{28}{27}\ (1\dfrac{1}{27})$

② $3\dfrac{5}{6} \times \dfrac{1}{4} = \dfrac{23 \times 1}{6 \times 4}$

$= \dfrac{23}{24}$

③ $2\dfrac{4}{7} \times \dfrac{5}{6} = \dfrac{18 \times 5}{7 \times 6}$

$= \dfrac{3 \times 5}{7 \times 1}$

$= \dfrac{15}{7}\ (2\dfrac{1}{7})$

④ $4\dfrac{3}{8} \times \dfrac{3}{7} = \dfrac{35 \times 3}{8 \times 7}$

$= \dfrac{5 \times 3}{8 \times 1}$

$= \dfrac{15}{8}\ (1\dfrac{7}{8})$

⑤ $3\dfrac{3}{4} \times \dfrac{3}{5} = \dfrac{15 \times 3}{4 \times 5}$

$= \dfrac{3 \times 3}{4 \times 1}$

$= \dfrac{9}{4}\ (2\dfrac{1}{4})$

⑥ $\dfrac{8}{15} \times 1\dfrac{1}{4} = \dfrac{8 \times 5}{15 \times 4}$

$= \dfrac{2 \times 1}{3 \times 1}$

$= \dfrac{2}{3}$

⑦ $\dfrac{5}{9} \times 3\dfrac{3}{5} = \dfrac{5 \times 18}{9 \times 5}$

$= \dfrac{1 \times 2}{1 \times 1}$

$= 2$

⑧ $1\dfrac{1}{4} \times 1\dfrac{2}{3} = \dfrac{5 \times 5}{4 \times 3}$

$= \dfrac{25}{12}\ (2\dfrac{1}{12})$

⑨ $2\dfrac{7}{10} \times 1\dfrac{1}{3} = \dfrac{27 \times 4}{10 \times 3}$

$= \dfrac{9 \times 2}{5 \times 1}$

$= \dfrac{18}{5}\ (3\dfrac{3}{5})$

⑩ $4\dfrac{1}{2} \times 3\dfrac{1}{3} = \dfrac{9 \times 10}{2 \times 3}$

$= \dfrac{3 \times 5}{1 \times 1}$

$= 15$

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1 くふうして計算をしましょう。

① $\dfrac{2}{3}\times\dfrac{1}{2}\times\dfrac{6}{7}=\dfrac{2\times1\times6}{3\times2\times7}=\dfrac{2}{7}$

② $\dfrac{5}{6}\times\dfrac{3}{7}\times\dfrac{14}{15}=\dfrac{5\times3\times14}{6\times7\times15}=\dfrac{1}{3}$

③ $1\dfrac{3}{4}\times8\times\dfrac{5}{14}=\dfrac{7\times8\times5}{4\times1\times14}=5$

④ $\dfrac{5}{11}\times3\dfrac{1}{7}\times\dfrac{14}{5}=\dfrac{5\times22\times14}{11\times7\times5}=4$

⑤ $(\dfrac{7}{8}\times\dfrac{5}{6})\times\dfrac{8}{7}=\dfrac{5}{6}\times(\dfrac{7}{8}\times\dfrac{8}{7})=\dfrac{5}{6}$

⑥ $(\dfrac{1}{2}+\dfrac{2}{3})\times6=\dfrac{1}{2}\times6+\dfrac{2}{3}\times6=7$

⑦ $(\dfrac{3}{4}+\dfrac{2}{5})\times20=\dfrac{3}{4}\times20+\dfrac{2}{5}\times20=23$

⑧ $(\dfrac{5}{7}\times\dfrac{5}{9})\times\dfrac{9}{5}=\dfrac{5}{7}\times(\dfrac{5}{9}\times\dfrac{9}{5})=\dfrac{5}{7}$

⑨ $\dfrac{3}{7}\times\dfrac{5}{6}+\dfrac{4}{7}\times\dfrac{5}{6}=(\dfrac{3}{7}+\dfrac{4}{7})\times\dfrac{5}{6}=\dfrac{5}{6}$

⑩ $\dfrac{2}{5}\times\dfrac{1}{4}+\dfrac{2}{5}\times\dfrac{3}{4}=(\dfrac{1}{4}+\dfrac{3}{4})\times\dfrac{2}{5}=\dfrac{2}{5}$

2 次の数の逆数を求めましょう。

① $\dfrac{3}{5}$　　　（　$\dfrac{5}{3}$　）

※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。

② $\dfrac{9}{2}$　　　（　$\dfrac{2}{9}$　）

③ $\dfrac{11}{3}$　　　（　$\dfrac{3}{11}$　）

④ $\dfrac{1}{8}$　　　（　8　）

⑤ $1\dfrac{3}{4}$　　　（　$\dfrac{4}{7}$　）

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

⑥ $2\dfrac{2}{3}$　　　（　$\dfrac{3}{8}$　）

⑦ 3　　　（　$\dfrac{1}{3}$　）

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

⑧ 8　　　（　$\dfrac{1}{8}$　）

⑨ 0.3　　　（　$\dfrac{10}{3}$　）

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

⑩ 0.7　　　（　$\dfrac{10}{7}$　）