9 分数のかけ算

解答と解説

解答

①

□(1) $\frac{8}{3}$ $\left(2\frac{2}{3}\right)$

□(2) $\frac{8}{7}$ $\left(1\frac{1}{7}\right)$

□(3) 2

□(4) 6

□(5) $\frac{15}{2}$ $\left(7\frac{1}{2}\right)$

□(6) $\frac{4}{3}$ $\left(1\frac{1}{3}\right)$

②

□(1) $\frac{8}{15}$

□(2) $\frac{3}{28}$

□(3) $\frac{25}{24}$ $\left(1\frac{1}{24}\right)$

□(4) $\frac{3}{40}$

□(5) $\frac{1}{10}$

□(6) $\frac{1}{6}$

□(7) $\frac{3}{7}$

□(8) $\frac{20}{21}$

□(9) $\frac{1}{6}$

□(10) $\frac{20}{3}$ $\left(6\frac{2}{3}\right)$

□(11) $\frac{1}{4}$

□(12) 4

□(13) $\frac{27}{4}$ $\left(6\frac{3}{4}\right)$

□(14) 12

解説

＊分数 × 整数 の計算

分母はそのままにして，
分子にその整数をかける。

$\frac{○}{□} \times ▲ = \frac{○\times▲}{□}$

＊分数 × 分数 の計算

分母どうし，分子どうしを
かける。

$\frac{○}{□} \times \frac{▲}{●} = \frac{○\times▲}{□\times●}$

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

(2) $\frac{2}{7}\times 4 = \frac{2\times 4}{7} = \frac{8}{7}$

(3) $\frac{1}{3}\times 6 = \frac{1\times \overset{2}{\cancel{6}}}{\underset{1}{\cancel{3}}} = 2$

(4) $\frac{3}{2}\times 4 = \frac{3\times \overset{2}{\cancel{4}}}{\underset{1}{\cancel{2}}} = 6$

(5) $\frac{3}{4}\times 10 = \frac{3\times \overset{5}{\cancel{10}}}{\underset{2}{\cancel{4}}} = \frac{15}{2}$

(6) $\frac{2}{9}\times 6 = \frac{2\times \overset{2}{\cancel{6}}}{\underset{3}{\cancel{9}}} = \frac{4}{3}$

② (1) $\frac{2}{3}\times\frac{4}{5} = \frac{2\times 4}{3\times 5} = \frac{8}{15}$

(2) $\frac{3}{4}\times\frac{1}{7} = \frac{3\times 1}{4\times 7} = \frac{3}{28}$

(3) $\frac{5}{6}\times\frac{5}{4} = \frac{5\times 5}{6\times 4} = \frac{25}{24}$

(4) $\frac{1}{8}\times\frac{3}{5} = \frac{1\times 3}{8\times 5} = \frac{3}{40}$

(5) $\frac{1}{6}\times\frac{3}{5} = \frac{1\times \overset{1}{\cancel{3}}}{\underset{2}{\cancel{6}}\times 5} = \frac{1}{10}$

(6) $\frac{2}{3}\times\frac{1}{4} = \frac{\overset{1}{\cancel{2}}\times 1}{3\times\underset{2}{\cancel{4}}} = \frac{1}{6}$

(7) $\frac{6}{7}\times\frac{1}{2} = \frac{\overset{3}{\cancel{6}}\times 1}{7\times\underset{1}{\cancel{2}}} = \frac{3}{7}$

(8) $\frac{5}{6}\times\frac{8}{7} = \frac{5\times \overset{4}{\cancel{8}}}{\underset{3}{\cancel{6}}\times 7} = \frac{20}{21}$

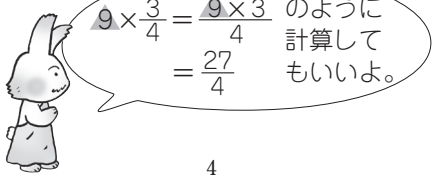
(9) $\frac{3}{4}\times\frac{2}{9} = \frac{\overset{1}{\cancel{3}}\times\overset{1}{\cancel{2}}}{\underset{2}{\cancel{4}}\times\underset{3}{\cancel{9}}} = \frac{1}{6}$

(10) $\frac{25}{6}\times\frac{8}{5} = \frac{\overset{5}{\cancel{25}}\times\overset{4}{\cancel{8}}}{\underset{3}{\cancel{6}}\times\underset{1}{\cancel{5}}} = \frac{20}{3}$

(11) $\frac{5}{6}\times\frac{3}{10} = \frac{\overset{1}{\cancel{5}}\times\overset{1}{\cancel{3}}}{\underset{2}{\cancel{6}}\times\underset{2}{\cancel{10}}} = \frac{1}{4}$

(12) $\frac{22}{3}\times\frac{6}{11} = \frac{\overset{2}{\cancel{22}}\times\overset{2}{\cancel{6}}}{\underset{1}{\cancel{3}}\times\underset{1}{\cancel{11}}} = 4$

(13) $9\times\frac{3}{4} = \frac{9}{1}\times\frac{3}{4} = \frac{27}{4}$



(14) $8\times\frac{3}{2} = \frac{\overset{4}{\cancel{8}}\times 3}{1\times\underset{1}{\cancel{2}}} = 12$