

帯分数のかけ算 (1)

名前 _____

【1】 次の計算をなさい。答えが1より大きい分数になるときは帯分数になおすこと。

$$(1) \frac{2}{3} \times 1\frac{1}{4} = \frac{\cancel{2}^1}{3} \times \frac{5}{\cancel{4}_2} = \frac{5}{6}$$

$$(2) \frac{2}{7} \times 1\frac{1}{3} = \frac{2}{7} \times \frac{4}{3} = \frac{8}{21}$$

$$(3) \frac{1}{2} \times 1\frac{3}{5} = \frac{\cancel{1}}{2} \times \frac{\cancel{8}^4}{\cancel{5}_1} = \frac{4}{5}$$

$$(4) \frac{4}{9} \times 1\frac{3}{4} = \frac{\cancel{4}^1}{9} \times \frac{7}{\cancel{4}_1} = \frac{7}{9}$$

$$(5) \frac{2}{5} \times 3\frac{1}{3} = \frac{\cancel{2}^1}{5} \times \frac{\cancel{10}^2}{3} = \frac{4}{3} = 1\frac{1}{3}$$

$$(6) \frac{3}{10} \times 2\frac{1}{2} = \frac{3}{\cancel{10}_2} \times \frac{\cancel{5}^1}{2} = \frac{3}{4}$$

$$(7) 3\frac{1}{2} \times \frac{2}{7} = \frac{\cancel{7}^1}{\cancel{2}_1} \times \frac{\cancel{2}^1}{7} = 1$$

$$(8) 1\frac{5}{6} \times \frac{3}{8} = \frac{\cancel{11}^1}{\cancel{6}_2} \times \frac{\cancel{3}^1}{8} = \frac{11}{16}$$

$$(9) 1\frac{7}{8} \times \frac{3}{10} = \frac{\cancel{15}^3}{8} \times \frac{3}{\cancel{10}_2} = \frac{9}{16}$$

$$(10) 1\frac{1}{4} \times \frac{1}{6} = \frac{5}{4} \times \frac{1}{6} = \frac{5}{24}$$

$$(11) 4\frac{2}{3} \times \frac{6}{7} = \frac{\cancel{14}^2}{\cancel{3}_1} \times \frac{\cancel{6}^2}{7} = 4$$

$$(12) 1\frac{1}{7} \times \frac{5}{8} = \frac{\cancel{8}^1}{7} \times \frac{5}{\cancel{8}_1} = \frac{5}{7}$$

$$(13) 1\frac{1}{5} \times 1\frac{1}{9} = \frac{\cancel{6}^2}{5} \times \frac{\cancel{10}^2}{\cancel{9}_3} = \frac{4}{3} = 1\frac{1}{3}$$

$$(14) 2\frac{1}{4} \times 1\frac{1}{6} = \frac{\cancel{9}^3}{4} \times \frac{7}{\cancel{6}_2} = \frac{21}{8} = 2\frac{5}{8}$$

【2】 次の問題に答えなさい。

(1) 縦の長さが $1\frac{2}{5}$ cm、横の長さが $3\frac{1}{3}$ cm の長方形の面積は何 cm^2 ですか。

$$\text{式 } 1\frac{2}{5} \times 3\frac{1}{3} = \frac{\cancel{7}^2}{5} \times \frac{\cancel{10}^2}{3} = \frac{7 \times 2}{1 \times 3} = \frac{14}{3} = 4\frac{2}{3}$$

答え $4\frac{2}{3} \text{ cm}^2$

(2) 面積が(1)の長方形の $\frac{2}{3}$ の長方形の面積は何 cm^2 ですか。

$$\text{式 } 4\frac{2}{3} \times \frac{2}{3} = \frac{14}{3} \times \frac{2}{3} = \frac{28}{9} = 3\frac{1}{9}$$

答え $3\frac{1}{9} \text{ cm}^2$

帯分数のかけ算 (2)

名前 _____

【1】 次の計算をなさい。答えが1より大きい分数になるときは帯分数になおすこと。

$$(1) \frac{1}{6} \times 1\frac{1}{2} = \frac{1}{\cancel{6}_2} \times \frac{\cancel{3}^1}{2} = \frac{1}{4}$$

$$(2) \frac{8}{11} \times 2\frac{3}{4} = \frac{\cancel{8}^2}{11} \times \frac{\cancel{4}^1}{\cancel{4}_1} = 2$$

$$(3) \frac{4}{7} \times 1\frac{1}{8} = \frac{\cancel{4}^1}{7} \times \frac{9}{\cancel{8}_2} = \frac{9}{14}$$

$$(4) \frac{5}{9} \times 1\frac{3}{10} = \frac{\cancel{5}^1}{9} \times \frac{13}{\cancel{10}_2} = \frac{13}{18}$$

$$(5) \frac{5}{8} \times 1\frac{2}{5} = \frac{\cancel{5}^1}{8} \times \frac{7}{\cancel{5}_1} = \frac{7}{8}$$

$$(6) \frac{9}{10} \times 1\frac{1}{3} = \frac{\cancel{9}^3}{10} \times \frac{\cancel{4}^2}{\cancel{3}_1} = \frac{6}{5} = 1\frac{1}{5}$$

$$(7) 7\frac{1}{2} \times \frac{1}{6} = \frac{\cancel{15}^5}{2} \times \frac{1}{\cancel{6}_2} = \frac{5}{4} = 1\frac{1}{4}$$

$$(8) 4\frac{2}{3} \times \frac{4}{7} = \frac{\cancel{14}^2}{3} \times \frac{4}{\cancel{7}_1} = \frac{8}{3} = 2\frac{2}{3}$$

$$(9) 1\frac{5}{7} \times 1\frac{1}{6} = \frac{\cancel{12}^2}{7} \times \frac{\cancel{7}^1}{\cancel{6}_1} = 2$$

$$(10) 1\frac{5}{9} \times 1\frac{1}{4} = \frac{\cancel{14}^7}{9} \times \frac{5}{\cancel{4}_2} = \frac{35}{18} = 1\frac{17}{18}$$

$$(11) 1\frac{1}{4} \times 1\frac{1}{15} = \frac{\cancel{5}^1}{4} \times \frac{\cancel{16}^4}{\cancel{15}_3} = \frac{4}{3} = 1\frac{1}{3}$$

$$(12) 4\frac{1}{2} \times 2\frac{2}{3} = \frac{\cancel{9}^3}{2} \times \frac{\cancel{8}^4}{\cancel{3}_1} = 12$$

$$(13) 1\frac{1}{5} \times 1\frac{1}{9} = \frac{\cancel{6}^2}{5} \times \frac{\cancel{10}^2}{\cancel{9}_3} = \frac{4}{3} = 1\frac{1}{3}$$

$$(14) 2\frac{1}{4} \times 1\frac{1}{6} = \frac{\cancel{9}^3}{4} \times \frac{7}{\cancel{6}_2} = \frac{21}{8} = 2\frac{5}{8}$$

【2】 次の問題に答えなさい。

(1) 1L あたり $4\frac{1}{2}$ g の食塩を含む食塩水 $\frac{1}{3}$ L には、食塩が何 g 含まれていますか。

$$\text{式 } 4\frac{1}{2} \times \frac{1}{3} = \frac{\cancel{9}^3}{2} \times \frac{1}{\cancel{3}_1} = \frac{3 \times 1}{2 \times 1} = \frac{3}{2} = 1\frac{1}{2}$$

答え 1 $\frac{1}{2}$ g

(2) 1m あたりの重さが $1\frac{2}{3}$ kg の棒があります。この棒 $\frac{3}{7}$ m の重さは何 kg ですか。

$$\text{式 } 1\frac{2}{3} \times \frac{3}{7} = \frac{\cancel{5}^1}{3} \times \frac{\cancel{3}^1}{7} = \frac{5}{7}$$

答え $\frac{5}{7}$ kg

帯分数のかけ算 (3)

名前 _____

【1】 次の計算をなさい。答えが1より大きい分数になるときは帯分数になおすこと。

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

$$(2) \frac{3}{4} \times 2\frac{2}{7} = \frac{3}{4} \times \frac{16}{7} = \frac{12}{7} = 1\frac{5}{7}$$

$$(3) \frac{5}{12} \times 1\frac{2}{5} = \frac{5}{12} \times \frac{7}{5} = \frac{7}{12}$$

$$(4) \frac{14}{15} \times 2\frac{4}{7} = \frac{14}{15} \times \frac{18}{7} = \frac{12}{5} = 2\frac{2}{5}$$

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

$$(6) 1\frac{7}{8} \times \frac{9}{35} = \frac{15}{8} \times \frac{9}{35} = \frac{27}{56}$$

$$(7) 2\frac{2}{7} \times \frac{3}{8} = \frac{16}{7} \times \frac{3}{8} = \frac{6}{7}$$

$$(8) 1\frac{1}{9} \times \frac{11}{20} = \frac{10}{9} \times \frac{11}{20} = \frac{11}{18}$$

$$(9) 2\frac{1}{10} \times \frac{3}{14} = \frac{21}{10} \times \frac{3}{14} = \frac{9}{20}$$

$$(10) 4\frac{1}{6} \times \frac{3}{10} = \frac{25}{6} \times \frac{3}{10} = \frac{5}{4} = 1\frac{1}{4}$$

$$(11) 4\frac{2}{3} \times 1\frac{4}{7} = \frac{14}{3} \times \frac{11}{7} = \frac{22}{3} = 7\frac{1}{3}$$

$$(12) 1\frac{1}{9} \times 7\frac{1}{2} = \frac{10}{9} \times \frac{15}{2} = \frac{25}{3} = 8\frac{1}{3}$$

$$(13) 5\frac{1}{4} \times 1\frac{7}{9} = \frac{21}{4} \times \frac{16}{9} = \frac{28}{3} = 9\frac{1}{3}$$

$$(14) 1\frac{3}{5} \times 5\frac{5}{6} = \frac{8}{5} \times \frac{35}{6} = \frac{28}{3} = 9\frac{1}{3}$$

【2】 次の問題に答えなさい。

(1) 縦の長さが $2\frac{1}{4}$ cm、横の長さが $\frac{2}{3}$ cm の長方形の面積は何 cm^2 ですか。

$$\text{式 } 2\frac{1}{4} \times \frac{2}{3} = \frac{9}{4} \times \frac{2}{3} = \frac{3 \times 1}{2 \times 1} = \frac{3}{2} = 1\frac{1}{2}$$

答え $1\frac{1}{2} \text{ cm}^2$

(2) 1dL で $1\frac{3}{4} \text{ m}^2$ を塗ることのできるペンキ $1\frac{1}{7} \text{ dL}$ では、何 m^2 を塗ることができますか。

$$\text{式 } 1\frac{3}{4} \times 1\frac{1}{7} = \frac{7}{4} \times \frac{8}{7} = 2$$

答え 2 m^2

帯分数のかけ算 (4)

名前 _____

【1】 次の計算をなさい。答えが1より大きい分数になるときは帯分数になおすこと。

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

$$(2) \frac{12}{35} \times 1\frac{3}{4} = \frac{\overset{3}{\cancel{12}}}{\underset{5}{\cancel{35}}} \times \frac{\overset{1}{\cancel{7}}}{\underset{1}{\cancel{4}}} = \frac{3}{5}$$

$$(3) \frac{8}{9} \times 1\frac{3}{8} = \frac{\overset{1}{\cancel{8}}}{\underset{1}{\cancel{9}}} \times \frac{\overset{11}{\cancel{8}}}{\underset{1}{\cancel{8}}} = \frac{11}{9} = 1\frac{2}{9}$$

$$(4) \frac{9}{14} \times 1\frac{1}{6} = \frac{\overset{3}{\cancel{9}}}{\underset{2}{\cancel{14}}} \times \frac{\overset{1}{\cancel{7}}}{\underset{2}{\cancel{6}}} = \frac{3}{4}$$

$$(5) 3\frac{1}{5} \times \frac{5}{12} = \frac{\overset{4}{\cancel{16}}}{\underset{1}{\cancel{5}}} \times \frac{\overset{1}{\cancel{5}}}{\underset{3}{\cancel{12}}} = \frac{4}{3} = 1\frac{1}{3}$$

$$(6) 3\frac{1}{2} \times \frac{4}{9} = \frac{\overset{7}{\cancel{7}}}{\underset{1}{\cancel{2}}} \times \frac{\overset{2}{\cancel{4}}}{\underset{9}{\cancel{9}}} = \frac{14}{9} = 1\frac{5}{9}$$

$$(7) 2\frac{5}{8} \times \frac{2}{7} = \frac{\overset{3}{\cancel{21}}}{\underset{4}{\cancel{8}}} \times \frac{\overset{1}{\cancel{2}}}{\underset{1}{\cancel{7}}} = \frac{3}{4}$$

$$(8) 1\frac{1}{3} \times \frac{9}{14} = \frac{\overset{2}{\cancel{4}}}{\underset{1}{\cancel{3}}} \times \frac{\overset{3}{\cancel{9}}}{\underset{7}{\cancel{14}}} = \frac{6}{7}$$

$$(9) 4\frac{1}{6} \times \frac{4}{15} = \frac{\overset{5}{\cancel{25}}}{\underset{3}{\cancel{6}}} \times \frac{\overset{2}{\cancel{4}}}{\underset{3}{\cancel{15}}} = \frac{10}{9} = 1\frac{1}{9}$$

$$(10) 2\frac{1}{4} \times \frac{7}{18} = \frac{\overset{1}{\cancel{9}}}{\underset{4}{\cancel{4}}} \times \frac{\overset{7}{\cancel{7}}}{\underset{2}{\cancel{18}}} = \frac{7}{8}$$

$$(11) 2\frac{1}{2} \times 1\frac{2}{5} = \frac{\overset{1}{\cancel{5}}}{\underset{1}{\cancel{2}}} \times \frac{\overset{7}{\cancel{7}}}{\underset{5}{\cancel{5}}} = \frac{7}{2} = 3\frac{1}{2}$$

$$(12) 1\frac{5}{6} \times 1\frac{1}{2} = \frac{\overset{11}{\cancel{11}}}{\underset{2}{\cancel{6}}} \times \frac{\overset{1}{\cancel{3}}}{\underset{2}{\cancel{2}}} = \frac{11}{4} = 2\frac{3}{4}$$

$$(13) 1\frac{3}{7} \times 4\frac{2}{3} = \frac{\overset{10}{\cancel{10}}}{\underset{1}{\cancel{7}}} \times \frac{\overset{2}{\cancel{14}}}{\underset{3}{\cancel{3}}} = \frac{20}{3} = 6\frac{2}{3}$$

$$(14) 1\frac{1}{4} \times 3\frac{3}{7} = \frac{\overset{5}{\cancel{5}}}{\underset{1}{\cancel{4}}} \times \frac{\overset{6}{\cancel{24}}}{\underset{7}{\cancel{7}}} = \frac{30}{7} = 4\frac{2}{7}$$

【2】 次の問題に答えなさい。

(1) 分速 $\frac{1}{14}$ km で歩く人は、 $2\frac{2}{5}$ 分で何 km 進みますか。

$$\text{式} \quad \frac{1}{14} \times 2\frac{2}{5} = \frac{1}{\underset{7}{\cancel{14}}} \times \frac{\overset{6}{\cancel{12}}}{\underset{5}{\cancel{5}}} = \frac{1 \times 6}{7 \times 5} = \frac{6}{35}$$

答え $\frac{6}{35}$ km

(2) 1m あたりの重さが $\frac{6}{7}$ kg の棒があります。この棒 $2\frac{1}{6}$ m の重さは何 kg ですか。

$$\text{式} \quad \frac{6}{7} \times 2\frac{1}{6} = \frac{\overset{1}{\cancel{6}}}{\underset{1}{\cancel{7}}} \times \frac{\overset{13}{\cancel{13}}}{\underset{1}{\cancel{6}}} = \frac{13}{7} = 1\frac{6}{7}$$

答え $1\frac{6}{7}$ kg

帯分数のかけ算 (5)

名前 _____

【1】 次の計算をなさい。答えが1より大きい分数になるときは帯分数になおすこと。

$$(1) \frac{4}{9} \times 2\frac{2}{5} = \frac{4}{\cancel{9}_3} \times \frac{\cancel{12}^4}{5} = \frac{16}{15} = 1\frac{1}{15}$$

$$(2) \frac{9}{20} \times 7\frac{1}{2} = \frac{9}{\cancel{20}_4} \times \frac{\cancel{15}^3}{2} = \frac{27}{8} = 3\frac{3}{8}$$

$$(3) \frac{5}{12} \times 2\frac{2}{7} = \frac{5}{\cancel{12}_3} \times \frac{\cancel{16}^4}{7} = \frac{20}{21}$$

$$(4) \frac{7}{18} \times 2\frac{1}{4} = \frac{7}{\cancel{18}_2} \times \frac{\cancel{9}^1}{4} = \frac{7}{8}$$

$$(5) 3\frac{1}{8} \times \frac{4}{15} = \frac{\cancel{25}^5}{\cancel{8}_2} \times \frac{\cancel{4}^1}{\cancel{15}_3} = \frac{5}{6}$$

$$(6) 1\frac{7}{9} \times \frac{3}{8} = \frac{\cancel{16}^2}{\cancel{9}_3} \times \frac{\cancel{3}^1}{8} = \frac{2}{3}$$

$$(7) 2\frac{2}{9} \times \frac{3}{16} = \frac{\cancel{20}^5}{\cancel{9}_3} \times \frac{\cancel{3}^1}{\cancel{16}_4} = \frac{5}{12}$$

$$(8) 3\frac{3}{8} \times \frac{8}{15} = \frac{\cancel{27}^9}{\cancel{8}_1} \times \frac{\cancel{8}^1}{\cancel{15}_5} = \frac{9}{5} = 1\frac{4}{5}$$

$$(9) 1\frac{1}{5} \times 2\frac{2}{3} = \frac{\cancel{6}^2}{\cancel{5}_1} \times \frac{\cancel{8}^1}{\cancel{3}_1} = \frac{16}{5} = 3\frac{1}{5}$$

$$(10) 2\frac{1}{4} \times 1\frac{1}{6} = \frac{\cancel{9}^3}{\cancel{4}_2} \times \frac{\cancel{7}^1}{\cancel{6}_2} = \frac{21}{8} = 2\frac{5}{8}$$

$$(11) 2\frac{2}{3} \times 2\frac{1}{7} = \frac{\cancel{8}^2}{\cancel{3}_1} \times \frac{\cancel{15}^5}{7} = \frac{40}{7} = 5\frac{5}{7}$$

$$(12) 5\frac{5}{6} \times 1\frac{3}{7} = \frac{\cancel{35}^5}{\cancel{6}_3} \times \frac{\cancel{10}^5}{\cancel{7}_1} = \frac{25}{3} = 8\frac{1}{3}$$

$$(13) 3\frac{3}{4} \times 1\frac{1}{5} = \frac{\cancel{15}^3}{\cancel{4}_2} \times \frac{\cancel{6}^3}{\cancel{5}_1} = \frac{9}{2} = 4\frac{1}{2}$$

$$(14) 2\frac{4}{5} \times 3\frac{3}{4} = \frac{\cancel{14}^7}{\cancel{5}_1} \times \frac{\cancel{15}^3}{\cancel{4}_2} = \frac{21}{2} = 10\frac{1}{2}$$

【2】 次の問題に答えなさい。

(1) 底辺が $5\frac{2}{5}$ cm、高さが $2\frac{1}{2}$ cm の平行四辺形の面積は何 cm^2 ですか。

$$\text{式 } 5\frac{2}{5} \times 2\frac{1}{2} = \frac{\cancel{27}^3}{\cancel{5}_1} \times \frac{\cancel{5}^1}{2} = \frac{27}{2} = 13\frac{1}{2}$$

答え $13\frac{1}{2} \text{ cm}^2$

(2) 1dL で $\frac{7}{8} \text{ m}^2$ を塗ることのできるペンキ $1\frac{7}{9} \text{ dL}$ では、何 m^2 を塗ることができますか。

$$\text{式 } \frac{7}{8} \times 1\frac{7}{9} = \frac{7}{\cancel{8}_1} \times \frac{\cancel{16}^2}{9} = \frac{14}{9} = 1\frac{5}{9}$$

答え $1\frac{5}{9} \text{ m}^2$