

帯分数のわり算 (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直すこと)

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

$$(2) \frac{3}{8} \div 1\frac{1}{5} = \frac{\cancel{3}^1 \times 5}{8 \times \cancel{6}_2} = \frac{5}{16}$$

$$(3) \frac{5}{12} \div 1\frac{1}{2} = \frac{5 \times \cancel{2}^1}{\cancel{12}_6 \times 3} = \frac{5}{18}$$

$$(4) \frac{4}{9} \div 2\frac{2}{3} = \frac{\cancel{4}^1 \times \cancel{3}^1}{\cancel{9}_3 \times \cancel{8}_2} = \frac{1}{6}$$

$$(5) \frac{1}{4} \div 1\frac{3}{8} = \frac{1 \times \cancel{8}^2}{\cancel{4}_1 \times 11} = \frac{2}{11}$$

$$(6) \frac{3}{10} \div 2\frac{2}{5} = \frac{\cancel{3}^1 \times \cancel{5}^1}{\cancel{10}_2 \times \cancel{12}_4} = \frac{1}{8}$$

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

$$(8) 2\frac{1}{2} \div \frac{3}{8} = \frac{5 \times \cancel{8}^4}{\cancel{2}_1 \times 3} = \frac{20}{3} = 6\frac{2}{3}$$

$$(9) 1\frac{3}{5} \div \frac{3}{10} = \frac{8 \times \cancel{10}^2}{\cancel{5}_1 \times 3} = \frac{16}{3} = 5\frac{1}{3}$$

$$(10) 1\frac{1}{7} \div \frac{4}{11} = \frac{\cancel{8}^2 \times 11}{7 \times \cancel{4}_1} = \frac{22}{7} = 3\frac{1}{7}$$

$$(11) 2\frac{2}{5} \div \frac{2}{7} = \frac{\cancel{12}^6 \times 7}{5 \times \cancel{2}_1} = \frac{42}{5} = 8\frac{2}{5}$$

$$(12) 1\frac{1}{2} \div \frac{4}{9} = \frac{3 \times 9}{2 \times 4} = \frac{27}{8} = 3\frac{3}{8}$$

$$(13) 2\frac{2}{3} \div 1\frac{5}{9} = \frac{\cancel{8}^4 \times \cancel{9}^3}{\cancel{3}_1 \times \cancel{14}_7} = \frac{12}{7} = 1\frac{5}{7}$$

$$(14) 3\frac{3}{4} \div 1\frac{1}{5} = \frac{\cancel{15}^5 \times 5}{4 \times \cancel{6}_2} = \frac{25}{8} = 3\frac{1}{8}$$

【2】 次の問題に答えなさい。

(1) 面積が $\frac{7}{2} \text{ cm}^2$ で縦の長さが $1\frac{1}{2} \text{ cm}$ の長方形の横の長さは何 cm ですか。

$$\text{式} \quad \frac{7}{2} \div 1\frac{1}{2} = \frac{7 \times \cancel{2}^1}{\cancel{2}_1 \times 3} = \frac{7}{3} = 2\frac{1}{3}$$

答え $2\frac{1}{3} \text{ cm}$

(2) $\frac{5}{12} \text{ m}$ の赤のリボンの長さは $1\frac{7}{8} \text{ m}$ の青のリボンの何倍の長さですか。

$$\text{式} \quad \frac{5}{12} \div 1\frac{7}{8} = \frac{\cancel{5}^1 \times \cancel{8}^2}{\cancel{12}_3 \times \cancel{15}_3} = \frac{1 \times 2}{3 \times 3} = \frac{2}{9}$$

答え $\frac{2}{9}$ 倍

帯分数のわり算 (2)

名前 _____

【1】 次の計算をしなさい。(答えが1より大きい分数になるときは帯分数に直すこと)

$$(1) \frac{1}{2} \div 1\frac{1}{5} = \frac{1 \times 5}{2 \times 6} = \frac{5}{12}$$

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

$$(3) \frac{3}{14} \div 1\frac{3}{4} = \frac{3 \times \overset{2}{\cancel{4}}}{\underset{7}{\cancel{14}} \times 7} = \frac{6}{49}$$

$$(4) \frac{3}{4} \div 1\frac{5}{7} = \frac{\overset{1}{\cancel{3}} \times 7}{4 \times \underset{4}{\cancel{12}}} = \frac{7}{16}$$

$$(5) \frac{1}{6} \div 3\frac{1}{3} = \frac{1 \times \overset{1}{\cancel{3}}}{\underset{2}{\cancel{6}} \times 10} = \frac{1}{20}$$

$$(6) \frac{5}{12} \div 2\frac{1}{4} = \frac{5 \times \overset{1}{\cancel{4}}}{\underset{3}{\cancel{12}} \times 9} = \frac{5}{27}$$

$$(7) 2\frac{1}{3} \div \frac{5}{9} = \frac{7 \times \overset{3}{\cancel{9}}}{\underset{1}{\cancel{3}} \times 5} = \frac{21}{5} = 4\frac{1}{5}$$

$$(8) 2\frac{1}{7} \div \frac{9}{14} = \frac{\overset{5}{\cancel{15}} \times \overset{2}{\cancel{14}}}{\underset{1}{\cancel{7}} \times \underset{3}{\cancel{9}}} = \frac{10}{3} = 3\frac{1}{3}$$

$$(9) 1\frac{1}{6} \div \frac{11}{12} = \frac{7 \times \overset{2}{\cancel{12}}}{\underset{1}{\cancel{6}} \times 11} = \frac{14}{11} = 1\frac{3}{11}$$

$$(10) 1\frac{1}{3} \div \frac{8}{9} = \frac{\overset{1}{\cancel{4}} \times \overset{3}{\cancel{9}}}{\underset{1}{\cancel{3}} \times \underset{2}{\cancel{8}}} = \frac{3}{2} = 1\frac{1}{2}$$

$$(11) 1\frac{7}{8} \div \frac{3}{14} = \frac{\overset{5}{\cancel{15}} \times \overset{7}{\cancel{14}}}{\underset{4}{\cancel{8}} \times \underset{1}{\cancel{3}}} = \frac{35}{4} = 8\frac{3}{4}$$

$$(12) 1\frac{3}{5} \div \frac{6}{25} = \frac{\overset{4}{\cancel{8}} \times \overset{5}{\cancel{25}}}{\underset{1}{\cancel{5}} \times \underset{3}{\cancel{6}}} = \frac{20}{3} = 6\frac{2}{3}$$

$$(13) 3\frac{1}{2} \div 1\frac{5}{9} = \frac{\overset{1}{\cancel{7}} \times 9}{2 \times \underset{2}{\cancel{14}}} = \frac{9}{4} = 2\frac{1}{4}$$

$$(14) 2\frac{1}{4} \div 2\frac{2}{3} = \frac{9 \times 3}{4 \times 8} = \frac{27}{32}$$

【2】 次の問題に答えなさい。

(1) $5\frac{1}{7}$ m のリボンを $\frac{4}{21}$ m ずつ切ると、何本に分けることができますか。

$$\text{式 } 5\frac{1}{7} \div \frac{4}{21} = \frac{\overset{9}{\cancel{36}} \times \overset{3}{\cancel{21}}}{\underset{1}{\cancel{7}} \times \underset{1}{\cancel{4}}} = \frac{9 \times 3}{1 \times 1} = 27$$

答え 27 本

(2) 長さが $\frac{2}{3}$ m で重さが $1\frac{1}{6}$ kg の木の棒があります。この棒 1m の重さは何 kg ですか。

$$\text{式 } 1\frac{1}{6} \div \frac{2}{3} = \frac{7 \times \overset{1}{\cancel{3}}}{\underset{2}{\cancel{6}} \times 2} = \frac{7 \times 1}{2 \times 2} = \frac{7}{4} = 1\frac{3}{4}$$

答え $1\frac{3}{4}$ kg

帯分数のわり算 (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直すこと)

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

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

$$(3) \frac{1}{12} \div 1\frac{1}{8} = \frac{1 \times \cancel{8}^2}{\cancel{12} \times 9} = \frac{2}{27}$$

$$(4) \frac{7}{11} \div 2\frac{4}{5} = \frac{\cancel{7}^1 \times 5}{11 \times \cancel{14}^2} = \frac{5}{22}$$

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

$$(6) \frac{8}{13} \div 1\frac{1}{3} = \frac{\cancel{8}^2 \times 3}{13 \times \cancel{4}^1} = \frac{6}{13}$$

$$(7) 1\frac{2}{3} \div \frac{2}{9} = \frac{5 \times \cancel{9}^3}{\cancel{3} \times 2} = \frac{15}{2} = 7\frac{1}{2}$$

$$(8) 3\frac{1}{2} \div \frac{3}{8} = \frac{7 \times \cancel{8}^4}{\cancel{2} \times 3} = \frac{28}{3} = 9\frac{1}{3}$$

$$(9) 1\frac{5}{8} \div \frac{7}{8} = \frac{13 \times \cancel{8}^1}{\cancel{8} \times 7} = \frac{13}{7} = 1\frac{6}{7}$$

$$(10) 1\frac{1}{5} \div \frac{8}{15} = \frac{\cancel{6}^3 \times \cancel{15}^3}{\cancel{5} \times \cancel{8}^4} = \frac{9}{4} = 2\frac{1}{4}$$

$$(11) 2\frac{1}{7} \div 2\frac{2}{9} = \frac{\cancel{15}^3 \times 9}{7 \times \cancel{20}^4} = \frac{27}{28}$$

$$(12) 1\frac{1}{5} \div 3\frac{3}{7} = \frac{\cancel{6}^1 \times 7}{5 \times \cancel{24}^4} = \frac{7}{20}$$

$$(13) 2\frac{1}{4} \div 2\frac{5}{8} = \frac{\cancel{9}^3 \times \cancel{8}^2}{\cancel{4} \times \cancel{21}^7} = \frac{6}{7}$$

$$(14) 9\frac{1}{3} \div 1\frac{7}{9} = \frac{\cancel{28}^7 \times \cancel{9}^3}{\cancel{3} \times \cancel{16}^4} = \frac{21}{4} = 5\frac{1}{4}$$

【2】 次の問題に答えなさい。

(1) 面積が $\frac{27}{4} \text{ cm}^2$ で横の長さが $1\frac{1}{8} \text{ cm}$ の長方形の縦の長さは何 cm ですか。

$$\text{式} \quad \frac{27}{4} \div 1\frac{1}{8} = \frac{\cancel{27}^3 \times \cancel{8}^2}{\cancel{4} \times \cancel{9}^1} = 6$$

答え 6 cm

(2) 長さが $1\frac{2}{5} \text{ m}$ で重さが $6\frac{1}{8} \text{ kg}$ の鉄の棒があります。この棒 1 m の重さは何 kg ですか。

$$\text{式} \quad 6\frac{1}{8} \div 1\frac{2}{5} = \frac{\cancel{49}^7 \times 5}{8 \times \cancel{7}^1} = \frac{7 \times 5}{8 \times 1} = \frac{35}{8} = 4\frac{3}{8}$$

答え $4\frac{3}{8} \text{ kg}$

帯分数のわり算 (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直すこと)

$$(1) \frac{2}{7} \div 3\frac{1}{5} = \frac{\overset{1}{\cancel{2}} \times 5}{7 \times \underset{8}{\cancel{16}}} = \frac{5}{56}$$

$$(2) \frac{7}{12} \div 3\frac{3}{6} = \frac{\overset{1}{\cancel{7}} \times \overset{1}{\cancel{6}}}{\underset{2}{\cancel{12}} \times \underset{3}{\cancel{21}}} = \frac{1}{6}$$

$$(3) \frac{8}{25} \div 1\frac{2}{5} = \frac{8 \times \overset{1}{\cancel{5}}}{\underset{5}{\cancel{25}} \times 7} = \frac{8}{35}$$

$$(4) \frac{5}{16} \div 2\frac{1}{4} = \frac{5 \times \overset{1}{\cancel{4}}}{\underset{4}{\cancel{16}} \times 9} = \frac{5}{36}$$

$$(5) 4\frac{1}{2} \div \frac{5}{8} = \frac{9 \times \overset{4}{\cancel{8}}}{\underset{1}{\cancel{2}} \times 5} = \frac{36}{5} = 7\frac{1}{5}$$

$$(6) 5\frac{2}{5} \div \frac{3}{10} = \frac{\overset{9}{\cancel{27}} \times \overset{2}{\cancel{10}}}{\underset{1}{\cancel{5}} \times \underset{1}{\cancel{3}}} = 18$$

$$(7) 4\frac{1}{6} \div \frac{5}{7} = \frac{\overset{5}{\cancel{25}} \times 7}{6 \times \underset{1}{\cancel{5}}} = \frac{35}{6} = 5\frac{5}{6}$$

$$(8) 1\frac{1}{4} \div \frac{7}{16} = \frac{5 \times \overset{4}{\cancel{16}}}{\underset{1}{\cancel{4}} \times 7} = \frac{20}{7} = 2\frac{6}{7}$$

$$(9) 1\frac{1}{3} \div \frac{3}{8} = \frac{4 \times 8}{3 \times 3} = \frac{32}{9} = 3\frac{5}{9}$$

$$(10) 1\frac{3}{5} \div \frac{4}{15} = \frac{\overset{2}{\cancel{8}} \times \overset{3}{\cancel{15}}}{\underset{1}{\cancel{5}} \times \underset{1}{\cancel{4}}} = 6$$

$$(11) 5\frac{1}{3} \div 1\frac{3}{5} = \frac{\overset{2}{\cancel{16}} \times 5}{3 \times \underset{1}{\cancel{8}}} = \frac{10}{3} = 3\frac{1}{3}$$

$$(12) 1\frac{2}{9} \div 3\frac{2}{3} = \frac{\overset{1}{\cancel{11}} \times \overset{1}{\cancel{3}}}{\underset{3}{\cancel{9}} \times \underset{1}{\cancel{11}}} = \frac{1}{3}$$

$$(13) 1\frac{5}{7} \div 1\frac{1}{3} = \frac{\overset{3}{\cancel{12}} \times 3}{7 \times \underset{1}{\cancel{4}}} = \frac{9}{7} = 1\frac{2}{7}$$

$$(14) 4\frac{1}{5} \div 1\frac{3}{4} = \frac{\overset{3}{\cancel{21}} \times 4}{5 \times \underset{1}{\cancel{7}}} = \frac{12}{5} = 2\frac{2}{5}$$

【2】 次の問題に答えなさい。

(1) $2\frac{7}{9}$ kg の小麦粉を $\frac{5}{18}$ kg ずつふくろに分けると、何ふくろに分けることができますか。

$$\text{式 } 2\frac{7}{9} \div \frac{5}{18} = \frac{\overset{5}{\cancel{25}} \times \overset{2}{\cancel{18}}}{\underset{1}{\cancel{9}} \times \underset{1}{\cancel{5}}} = \frac{5 \times 2}{1 \times 1} = 10$$

答え 10 ふくろ

(2) $\frac{3}{5}$ cm の赤のリボンの長さは $1\frac{1}{5}$ cm の青のリボンの何倍の長さですか。

$$\text{式 } \frac{3}{5} \div 1\frac{1}{5} = \frac{\overset{1}{\cancel{3}} \times \overset{1}{\cancel{5}}}{\underset{1}{\cancel{5}} \times \underset{2}{\cancel{6}}} = \frac{1}{2}$$

答え $\frac{1}{2}$ 倍

帯分数のわり算 (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直すこと)

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

$$(2) \frac{7}{24} \div 1\frac{1}{8} = \frac{7 \times \overset{1}{\cancel{8}}}{\underset{3}{\cancel{24}} \times 9} = \frac{7}{27}$$

$$(3) \frac{3}{8} \div 3\frac{3}{4} = \frac{\overset{1}{\cancel{3}} \times \overset{1}{\cancel{4}}}{\underset{2}{\cancel{8}} \times \underset{5}{\cancel{15}}} = \frac{1}{10}$$

$$(4) \frac{5}{18} \div 1\frac{1}{6} = \frac{5 \times \overset{1}{\cancel{6}}}{\underset{3}{\cancel{18}} \times 7} = \frac{5}{21}$$

$$(5) 1\frac{5}{6} \div \frac{11}{18} = \frac{\overset{1}{\cancel{11}} \times \overset{3}{\cancel{18}}}{\underset{1}{\cancel{6}} \times \underset{1}{\cancel{11}}} = 3$$

$$(6) 6\frac{2}{5} \div \frac{8}{9} = \frac{\overset{4}{\cancel{32}} \times 9}{5 \times \underset{1}{\cancel{8}}} = \frac{36}{5} = 7\frac{1}{5}$$

$$(7) 2\frac{4}{9} \div \frac{2}{3} = \frac{\overset{11}{\cancel{22}} \times \overset{1}{\cancel{3}}}{\underset{3}{\cancel{9}} \times \underset{1}{\cancel{2}}} = \frac{11}{3} = 3\frac{2}{3}$$

$$(8) 3\frac{3}{4} \div \frac{5}{9} = \frac{\overset{3}{\cancel{15}} \times 9}{4 \times \underset{1}{\cancel{5}}} = \frac{27}{4} = 6\frac{3}{4}$$

$$(9) 7\frac{1}{2} \div 1\frac{3}{7} = \frac{\overset{3}{\cancel{15}} \times 7}{2 \times \underset{2}{\cancel{10}}} = \frac{21}{4} = 5\frac{1}{4}$$

$$(10) 2\frac{4}{7} \div 4\frac{4}{5} = \frac{\overset{3}{\cancel{18}} \times 5}{7 \times \underset{4}{\cancel{24}}} = \frac{15}{28}$$

$$(11) 8\frac{3}{4} \div 4\frac{2}{3} = \frac{\overset{5}{\cancel{35}} \times 3}{4 \times \underset{2}{\cancel{14}}} = \frac{15}{8} = 1\frac{7}{8}$$

$$(12) 9\frac{1}{3} \div 1\frac{2}{5} = \frac{\overset{4}{\cancel{28}} \times 5}{3 \times \underset{1}{\cancel{7}}} = \frac{20}{3} = 6\frac{2}{3}$$

$$(13) 2\frac{1}{12} \div 1\frac{7}{8} = \frac{\overset{5}{\cancel{25}} \times \overset{2}{\cancel{8}}}{\underset{3}{\cancel{12}} \times \underset{3}{\cancel{15}}} = \frac{10}{9} = 1\frac{1}{9}$$

$$(14) 2\frac{14}{15} \div 5\frac{1}{3} = \frac{\overset{11}{\cancel{44}} \times \overset{1}{\cancel{3}}}{\underset{5}{\cancel{15}} \times \underset{4}{\cancel{16}}} = \frac{11}{20}$$

【2】 次の問題に答えなさい。

(1) 面積が $\frac{32}{3} \text{ cm}^2$ で底辺が $1\frac{3}{5} \text{ cm}$ の平行四辺形の高さは何 cm ですか。

$$\text{式} \quad \frac{32}{3} \div 1\frac{3}{5} = \frac{\overset{4}{\cancel{32}} \times 5}{3 \times \underset{1}{\cancel{3}}} = \frac{20}{3} = 6\frac{2}{3}$$

答え $6\frac{2}{3} \text{ cm}$

(2) 1dL で $1\frac{5}{9} \text{ m}^2$ ぬれるペンキを使って $5\frac{3}{5} \text{ m}^2$ ぬりました。使ったペンキは何 dL ですか。

$$\text{式} \quad 5\frac{3}{5} \div 1\frac{5}{9} = \frac{\overset{2}{\cancel{28}} \times 9}{5 \times \underset{1}{\cancel{14}}} = \frac{2 \times 9}{5 \times 1} = \frac{18}{5} = 3\frac{3}{5}$$

答え $3\frac{3}{5} \text{ dL}$