

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 $4\frac{3}{8} \text{ kg}$