帯分数のわり算（5）

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

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

式 $\frac{32}{3} \div 1\frac{3}{5} = \frac{\overset{4}{\cancel{32}} \times 5}{3 \times \underset{1}{\cancel{8}}} = \frac{20}{3} = 6\frac{2}{3}$

答え $6\frac{2}{3}$ cm

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

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

答え $3\frac{3}{5}$ dL