

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