

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 $3\frac{1}{9} \text{ cm}^2$