分数と小数のかけ算（5）

【1】次の計算をしなさい。

(1) $\dfrac{9}{4} \times 0.6 = \dfrac{9 \times 3}{4 \times 5} = \dfrac{27}{20}\ \left(1\dfrac{7}{20}\right)$

(2) $0.9 \times \dfrac{5}{6} = \dfrac{\overset{3}{\cancel{9}} \times \overset{1}{\cancel{5}}}{\underset{2}{\cancel{10}} \times \cancel{6}_{2}} = \dfrac{3}{4}$

(3) $\dfrac{3}{5} \times 1.5 = \dfrac{3 \times 3}{5 \times 2} = \dfrac{9}{10}$

(4) $2.2 \times \dfrac{5}{21} = \dfrac{11 \times \overset{1}{\cancel{5}}}{\underset{1}{\cancel{5}} \times 21} = \dfrac{11}{21}$

(5) $\dfrac{9}{7} \times 4.2 = \dfrac{9 \times \overset{3}{\cancel{21}}}{\underset{1}{\cancel{7}} \times 5} = \dfrac{27}{5}\ \left(5\dfrac{2}{5}\right)$

(6) $3.6 \times \dfrac{7}{8} = \dfrac{\overset{9}{\cancel{18}} \times 7}{5 \times \cancel{8}_{4}} = \dfrac{63}{20}\ \left(3\dfrac{3}{20}\right)$

(7) $\dfrac{7}{4} \times 5.6 = \dfrac{7 \times \overset{7}{\cancel{28}}}{\underset{1}{\cancel{4}} \times 5} = \dfrac{49}{5}\ \left(9\dfrac{4}{5}\right)$

(8) $6.4 \times \dfrac{9}{8} = \dfrac{\overset{4}{\cancel{32}} \times 9}{5 \times \cancel{8}_{1}} = \dfrac{36}{5}\ \left(7\dfrac{1}{5}\right)$

(9) $\dfrac{25}{6} \times 0.17 = \dfrac{\overset{1}{\cancel{25}} \times 17}{6 \times \cancel{100}_{4}} = \dfrac{17}{24}$

(10) $0.22 \times \dfrac{7}{11} = \dfrac{\overset{1}{\cancel{11}} \times 7}{50 \times \cancel{11}_{1}} = \dfrac{7}{50}$

(11) $\dfrac{12}{5} \times 0.70 = \dfrac{\overset{6}{\cancel{12}} \times 7}{5 \times \cancel{10}_{5}} = \dfrac{42}{25}\ \left(1\dfrac{17}{25}\right)$

(12) $0.39 \times \dfrac{10}{3} = \dfrac{\overset{13}{\cancel{39}} \times \overset{1}{\cancel{10}}}{\underset{10}{\cancel{100}} \times \cancel{3}_{1}} = \dfrac{13}{10}\ \left(1\dfrac{3}{10}\right)$

(13) $\dfrac{8}{11} \times 1.21 = \dfrac{\overset{2}{\cancel{8}} \times \overset{11}{\cancel{121}}}{\underset{1}{\cancel{11}} \times \cancel{100}_{25}} = \dfrac{22}{25}$

(14) $0.81 \times \dfrac{16}{27} = \dfrac{\overset{3}{\cancel{81}} \times \overset{4}{\cancel{16}}}{\underset{25}{\cancel{100}} \times \cancel{27}_{1}} = \dfrac{12}{25}$

【2】次の問題に答えなさい

(1) 縦の長さが $\dfrac{15}{4}$ cm、横の長さが 3.6cm の長方形の面積は何cm²ですか。

式 $\dfrac{15}{4} \times 3.6 = \dfrac{15}{4} \times \dfrac{\overset{18}{\cancel{36}}}{\underset{5}{\cancel{10}}} = \dfrac{\overset{3}{\cancel{15}} \times \overset{9}{\cancel{18}}}{\underset{2}{\cancel{4}} \times \cancel{5}_{1}} = \dfrac{27}{2}$

答え $\dfrac{27}{2}$ cm² $\left(13\dfrac{1}{2}\ \text{cm}^2\right)$

(2) 分速 0.07km で歩く人は、$\dfrac{72}{7}$ 分で何 km 進みますか。

式 $0.07 \times \dfrac{72}{7} = \dfrac{7}{100} \times \dfrac{72}{7} = \dfrac{\overset{1}{\cancel{7}} \times \overset{18}{\cancel{72}}}{\underset{25}{\cancel{100}} \times \cancel{7}_{1}} = \dfrac{18}{25}$

答え $\dfrac{18}{25}$ km