

分数と小数のかけ算 (1)

名前 _____

【1】 次の計算をなさい。

$$(1) \frac{1}{2} \times 0.1 = \frac{1 \times 1}{2 \times 10} = \frac{1}{20}$$

$$(2) 0.3 \times \frac{1}{3} = \frac{3 \times 1}{10 \times 3} = \frac{1}{10}$$

$$(3) \frac{3}{4} \times 0.8 = \frac{3 \times 4}{4 \times 5} = \frac{3}{5}$$

$$(4) 0.4 \times \frac{4}{9} = \frac{2 \times 4}{5 \times 9} = \frac{8}{45}$$

$$(5) \frac{10}{7} \times 0.7 = \frac{10 \times 7}{7 \times 10} = 1$$

$$(6) 0.6 \times \frac{5}{2} = \frac{3 \times 5}{5 \times 2} = \frac{3}{2} \left(1\frac{1}{2}\right)$$

$$(7) \frac{1}{6} \times 1.2 = \frac{1 \times 6}{6 \times 5} = \frac{1}{5}$$

$$(8) 1.6 \times \frac{3}{8} = \frac{8 \times 3}{5 \times 8} = \frac{3}{5}$$

$$(9) \frac{9}{4} \times 2.4 = \frac{9 \times 12}{4 \times 5} = \frac{27}{5} \left(5\frac{2}{5}\right)$$

$$(10) 1.3 \times \frac{5}{6} = \frac{13 \times 5}{10 \times 6} = \frac{13}{12} \left(1\frac{1}{12}\right)$$

$$(11) \frac{10}{9} \times 3.6 = \frac{10 \times 18}{9 \times 5} = 4$$

$$(12) 3.3 \times \frac{15}{11} = \frac{33 \times 15}{10 \times 11} = \frac{9}{2} \left(4\frac{1}{2}\right)$$

$$(13) \frac{4}{11} \times 0.11 = \frac{4 \times 11}{11 \times 100} = \frac{1}{25}$$

$$(14) 0.81 \times \frac{4}{9} = \frac{81 \times 4}{100 \times 9} = \frac{9}{25}$$

【2】 次の問題に答えなさい

(1) 縦の長さが 2.8cm、横の長さが $\frac{8}{7}$ cm の長方形の面積は何 cm^2 ですか。

$$\text{式 } 2.8 \times \frac{8}{7} = \frac{28}{10} \times \frac{8}{7} = \frac{14 \times 8}{5 \times 7} = \frac{16}{5}$$

$$\text{答え } \frac{16}{5} \text{ cm}^2 \left(3\frac{1}{5} \text{ cm}^2\right)$$

(2) 面積が(1)の長方形の 0.75 倍の長方形の面積は何 cm^2 ですか。

$$\text{式 } \frac{16}{5} \times 0.75 = \frac{16}{5} \times \frac{75}{100} = \frac{16 \times 3}{5 \times 4} = \frac{12}{5}$$

$$\text{答え } \frac{12}{5} \text{ cm} \left(2\frac{2}{5} \text{ cm}\right)$$

分数と小数のかけ算 (2)

名前 _____

【1】 次の計算をなさい。

$$(1) \frac{1}{3} \times 0.8 = \frac{1 \times 4}{3 \times 5} = \frac{4}{15}$$

$$(2) 0.5 \times \frac{3}{5} = \frac{1 \times 3}{2 \times 5} = \frac{3}{10}$$

$$(3) \frac{6}{7} \times 0.2 = \frac{6 \times 1}{7 \times 5} = \frac{6}{35}$$

$$(4) 0.7 \times \frac{9}{14} = \frac{1 \cancel{7} \times 9}{10 \times 14_2} = \frac{9}{20}$$

$$(5) \frac{3}{2} \times 1.2 = \frac{3 \times \cancel{6}^3}{\cancel{2}_1 \times 5} = \frac{9}{5} \left(1\frac{4}{5}\right)$$

$$(6) 1.6 \times \frac{7}{4} = \frac{\cancel{8}^2 \times 7}{5 \times \cancel{4}_1} = \frac{14}{5} \left(2\frac{4}{5}\right)$$

$$(7) \frac{4}{5} \times 1.5 = \frac{\cancel{4}^2 \times 3}{5 \times \cancel{2}_1} = \frac{6}{5} \left(1\frac{1}{5}\right)$$

$$(8) 2.5 \times \frac{7}{4} = \frac{5 \times 7}{2 \times 4} = \frac{35}{8} \left(4\frac{3}{8}\right)$$

$$(9) \frac{5}{8} \times 6.4 = \frac{\cancel{5}^1 \times \cancel{32}^4}{\cancel{8}_1 \times \cancel{5}_1} = 4$$

$$(10) 4.2 \times \frac{8}{7} = \frac{\cancel{21}^3 \times 8}{5 \times \cancel{7}_1} = \frac{24}{5} \left(4\frac{4}{5}\right)$$

$$(11) \frac{20}{9} \times 0.27 = \frac{\cancel{20}^1 \times \cancel{27}^3}{\cancel{9}_1 \times \cancel{100}_5} = \frac{3}{5}$$

$$(12) 0.40 \times \frac{3}{7} = \frac{2 \times 3}{5 \times 7} = \frac{6}{35}$$

$$(13) \frac{2}{5} \times 1.25 = \frac{\cancel{2}^1 \times \cancel{5}^1}{\cancel{5}_1 \times \cancel{4}_2} = \frac{1}{2}$$

$$(14) 0.64 \times \frac{15}{8} = \frac{\cancel{16}^2 \times \cancel{15}^3}{5 \times \cancel{25}_5 \times \cancel{8}_1} = \frac{6}{5} \left(1\frac{1}{5}\right)$$

【2】 次の問題に答えなさい

(1) 1dL で $2.1m^2$ を塗ることのできるペンキ $\frac{8}{3}$ dL では、何 m^2 を塗ることができますか。

$$\text{式 } 2.1 \times \frac{8}{3} = \frac{21}{10} \times \frac{8}{3} = \frac{\cancel{21}^7 \times \cancel{8}^4}{\cancel{10}_5 \times \cancel{3}_1} = \frac{28}{5}$$

答え $\frac{28}{5} m^2 \left(5\frac{3}{5} m^2\right)$

(2) 時速 $\frac{9}{2}$ km で歩く人は、0.25 時間で何 km 進みますか。

$$\text{式 } \frac{9}{2} \times 0.25 = \frac{9}{2} \times \frac{\cancel{25}^1}{\cancel{100}_4} = \frac{9 \times 1}{2 \times 4} = \frac{9}{8}$$

答え $\frac{9}{8} \text{ km} \left(1\frac{1}{8} \text{ km}\right)$

分数と小数のかけ算 (3)

名前 _____

【1】 次の計算をなさい。

$$(1) \frac{15}{7} \times 0.7 = \frac{\overset{3}{\cancel{15}} \times \overset{1}{\cancel{7}}}{\underset{1}{\cancel{7}} \times \underset{2}{\cancel{10}}} = \frac{3}{2} \left(1\frac{1}{2}\right)$$

$$(2) 0.8 \times \frac{4}{5} = \frac{4 \times 4}{5 \times 5} = \frac{16}{25}$$

$$(3) \frac{8}{3} \times 0.2 = \frac{8 \times 1}{3 \times 5} = \frac{8}{15}$$

$$(4) 0.3 \times \frac{5}{8} = \frac{\overset{1}{\cancel{3}} \times \overset{1}{\cancel{5}}}{\underset{2}{\cancel{10}} \times 8} = \frac{3}{16}$$

$$(5) \frac{1}{4} \times 1.2 = \frac{1 \times \overset{3}{\cancel{6}}}{\underset{2}{\cancel{4}} \times 5} = \frac{3}{10}$$

$$(6) 1.4 \times \frac{9}{14} = \frac{\overset{1}{\cancel{14}} \times 9}{10 \times \underset{1}{\cancel{14}}} = \frac{9}{10}$$

$$(7) \frac{3}{8} \times 1.8 = \frac{3 \times \overset{9}{\cancel{18}}}{8 \times \underset{5}{\cancel{10}}} = \frac{27}{40}$$

$$(8) 2.5 \times \frac{6}{11} = \frac{5 \times \overset{3}{\cancel{6}}}{\underset{1}{\cancel{2}} \times 11} = \frac{15}{11} \left(1\frac{4}{11}\right)$$

$$(9) \frac{5}{12} \times 3.6 = \frac{\overset{1}{\cancel{5}} \times \overset{3}{\cancel{18}}}{\underset{2}{\cancel{12}} \times \underset{1}{\cancel{5}}} = \frac{3}{2} \left(1\frac{1}{2}\right)$$

$$(10) 4.2 \times \frac{5}{14} = \frac{\overset{3}{\cancel{21}} \times \overset{1}{\cancel{5}}}{\underset{1}{\cancel{5}} \times \underset{2}{\cancel{14}}} = \frac{3}{2} \left(1\frac{1}{2}\right)$$

$$(11) \frac{15}{11} \times 0.11 = \frac{\overset{3}{\cancel{15}} \times \overset{1}{\cancel{11}}}{\underset{1}{\cancel{11}} \times \underset{20}{\cancel{100}}} = \frac{3}{20}$$

$$(12) 0.24 \times \frac{7}{8} = \frac{\overset{3}{\cancel{24}} \times 7}{100 \times \underset{1}{\cancel{8}}} = \frac{21}{100}$$

$$(13) \frac{12}{13} \times 0.30 = \frac{\overset{6}{\cancel{12}} \times 3}{13 \times \underset{5}{\cancel{10}}} = \frac{18}{65}$$

$$(14) 1.23 \times \frac{5}{3} = \frac{\overset{41}{\cancel{123}} \times \overset{1}{\cancel{5}}}{\underset{20}{\cancel{100}} \times \underset{1}{\cancel{3}}} = \frac{41}{20} \left(2\frac{1}{20}\right)$$

【2】 次の問題に答えなさい

(1) 底辺の長さが4.8cm、高さが $\frac{25}{6}$ cmの平行四辺形の面積は何 cm^2 ですか。

$$\text{式 } 4.8 \times \frac{25}{6} = \frac{48 \overset{24}{\cancel{}}}{10 \overset{5}{\cancel{}}} \times \frac{25}{6} = \frac{\overset{4}{\cancel{24}} \times \overset{5}{\cancel{25}}}{\underset{1}{\cancel{5}} \times \underset{1}{\cancel{6}}} = 20$$

答え 20 cm^2

(2) 1mあたりの重さが $\frac{5}{2}$ kgの棒があります。この棒1.6mの重さは何kgですか。

$$\text{式 } \frac{5}{2} \times 1.6 = \frac{5}{2} \times \frac{16 \overset{8}{\cancel{}}}{10 \overset{5}{\cancel{}}} = \frac{\overset{1}{\cancel{5}} \times \overset{1}{\cancel{8}}}{\underset{1}{\cancel{2}} \times \underset{1}{\cancel{5}}} = 4$$

答え 4 kg

分数と小数のかけ算 (4)

名前 _____

【1】 次の計算をなさい。

$$(1) \frac{2}{5} \times 0.7 = \frac{\overset{1}{\cancel{2}} \times 7}{5 \times \underset{5}{\cancel{10}}} = \frac{7}{25}$$

$$(2) 0.4 \times \frac{1}{4} = \frac{\overset{1}{\cancel{2}} \times 1}{5 \times \underset{2}{\cancel{4}}} = \frac{1}{10}$$

$$(3) \frac{16}{3} \times 0.5 = \frac{\overset{8}{\cancel{16}} \times 1}{3 \times \underset{1}{\cancel{2}}} = \frac{8}{3} \left(2\frac{2}{3}\right)$$

$$(4) 0.1 \times \frac{12}{7} = \frac{1 \times \overset{6}{\cancel{12}}}{\underset{5}{\cancel{10}} \times 7} = \frac{6}{35}$$

$$(5) \frac{2}{9} \times 1.9 = \frac{\overset{1}{\cancel{2}} \times 19}{9 \times \underset{5}{\cancel{10}}} = \frac{19}{45}$$

$$(6) 2.7 \times \frac{5}{12} = \frac{\overset{9}{\cancel{27}} \times \overset{1}{\cancel{5}}}{\underset{2}{\cancel{10}} \times \underset{4}{\cancel{12}}} = \frac{9}{8} \left(1\frac{1}{8}\right)$$

$$(7) \frac{5}{2} \times 5.4 = \frac{\overset{1}{\cancel{5}} \times 27}{2 \times \underset{1}{\cancel{5}}} = \frac{27}{2} \left(13\frac{1}{2}\right)$$

$$(8) 4.5 \times \frac{16}{9} = \frac{\overset{1}{\cancel{9}} \times \overset{8}{\cancel{16}}}{\underset{1}{\cancel{2}} \times \underset{1}{\cancel{9}}} = 8$$

$$(9) \frac{9}{8} \times 7.2 = \frac{9 \times \overset{9}{\cancel{36}}}{\underset{2}{\cancel{8}} \times 5} = \frac{81}{10} \left(8\frac{1}{10}\right)$$

$$(10) 8.1 \times \frac{8}{27} = \frac{\overset{3}{\cancel{81}} \times \overset{4}{\cancel{8}}}{\underset{5}{\cancel{10}} \times \underset{1}{\cancel{27}}} = \frac{12}{5} \left(2\frac{2}{5}\right)$$

$$(11) \frac{10}{3} \times 0.13 = \frac{\overset{1}{\cancel{10}} \times 13}{3 \times \underset{10}{\cancel{100}}} = \frac{13}{30}$$

$$(12) 0.25 \times \frac{1}{8} = \frac{1 \times 1}{4 \times 8} = \frac{1}{32}$$

$$(13) \frac{7}{4} \times 1.40 = \frac{7 \times 7}{4 \times 5} = \frac{49}{20} \left(2\frac{9}{20}\right)$$

$$(14) 1.44 \times \frac{25}{6} = \frac{\overset{6}{\cancel{36}} \times \overset{1}{\cancel{25}}}{\underset{1}{\cancel{25}} \times \underset{1}{\cancel{6}}} = 6$$

【2】 次の問題に答えなさい

(1) 1dL で $\frac{15}{8}m^2$ を塗ることのできるペンキ 1.8dL では、何 m^2 を塗ることができますか。

$$\text{式} \frac{15}{8} \times 1.8 = \frac{15}{8} \times \frac{\overset{9}{\cancel{18}}}{\underset{5}{\cancel{10}}} = \frac{\overset{3}{\cancel{15}} \times 9}{8 \times \underset{1}{\cancel{5}}} = \frac{27}{8}$$

答え $\frac{27}{8}m^2 \left(3\frac{3}{8}m^2\right)$

(2) 1m あたりの重さが 0.7kg の棒があります。この棒 $\frac{4}{5}m$ の重さは何 kg ですか。

$$\text{式} 0.7 \times \frac{4}{5} = \frac{7}{10} \times \frac{4}{5} = \frac{7 \times \underset{2}{\cancel{4}}}{\underset{5}{\cancel{10}} \times 5} = \frac{14}{25}$$

答え $\frac{14}{25}kg$

分数と小数のかけ算 (5)

名前 _____

【1】 次の計算をしなさい。

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

$$(2) 0.9 \times \frac{5}{6} = \frac{9 \times 5^1}{2 \times 10 \times 6_2} = \frac{3}{4}$$

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

$$(4) 2.2 \times \frac{5}{21} = \frac{11 \times 5^1}{1_5 \times 21} = \frac{11}{21}$$

$$(5) \frac{9}{7} \times 4.2 = \frac{9 \times 21^3}{1_7 \times 5} = \frac{27}{5} \left(5 \frac{2}{5}\right)$$

$$(6) 3.6 \times \frac{7}{8} = \frac{18 \times 7}{5 \times 8_4} = \frac{63}{20} \left(3 \frac{3}{20}\right)$$

$$(7) \frac{7}{4} \times 5.6 = \frac{7 \times 28^7}{1_4 \times 5} = \frac{49}{5} \left(9 \frac{4}{5}\right)$$

$$(8) 6.4 \times \frac{9}{8} = \frac{32 \times 9}{5 \times 8_1} = \frac{36}{5} \left(7 \frac{1}{5}\right)$$

$$(9) \frac{25}{6} \times 0.17 = \frac{25 \times 17}{6 \times 100_4} = \frac{17}{24}$$

$$(10) 0.22 \times \frac{7}{11} = \frac{11 \times 7}{50 \times 11_1} = \frac{7}{50}$$

$$(11) \frac{12}{5} \times 0.70 = \frac{12 \times 7}{5 \times 10_5} = \frac{42}{25} \left(1 \frac{17}{25}\right)$$

$$(12) 0.39 \times \frac{10}{3} = \frac{39 \times 10^1}{10 \times 100 \times 3_1} = \frac{13}{10} \left(1 \frac{3}{10}\right)$$

$$(13) \frac{8}{11} \times 1.21 = \frac{8 \times 121^{11}}{1_11 \times 100_{25}} = \frac{22}{25}$$

$$(14) 0.81 \times \frac{16}{27} = \frac{81 \times 16^4}{25 \times 100 \times 27_1} = \frac{12}{25}$$

【2】 次の問題に答えなさい

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

$$\text{式} \frac{15}{4} \times 3.6 = \frac{15}{4} \times \frac{36^{18}}{10_5} = \frac{15 \times 18^9}{2_4 \times 5_1} = \frac{27}{2}$$

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

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

$$\text{式} 0.07 \times \frac{72}{7} = \frac{7}{100} \times \frac{72}{7} = \frac{7 \times 72^{18}}{25 \times 100 \times 7_1} = \frac{18}{25}$$

$$\text{答え} \frac{18}{25} \text{ km}$$