

2008 湘南白百合学園中学校

1. (1) $3\frac{1}{5} \times \left\{ 1 \div \left(9.1 \times \frac{2}{7} + \frac{3}{5} \right) + \frac{5}{16} \right\} - 2 \times \left(0.75 - \frac{1}{8} \right) = \square$
 (2) $\frac{4}{5} \times \left\{ \left(\frac{5}{6} - 1.25 \div 2\frac{2}{9} \right) \times \square + 0.375 \right\} = \frac{5}{12}$

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1. ① $1 \times 2 \times 1.25 + 3 \times 4 \times 1.25 + 5 \times 6 \times 1.25 + 7 \times 8 \times 1.25 = \square$
 ② $2\frac{2}{3} \div \left\{ 5.2 - \left(1\frac{1}{3} + 1.2 \right) \right\} = \square$
 ③ $12 \times \frac{2}{5} \div \left(3 \div \square - 6 \right) = 2$

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1. $0.384 \div 0.24 + \frac{25}{27} \times \frac{9}{10} - \left(5 - \frac{5}{4} + \frac{27}{8} \right) \div \frac{\square}{\square} = \frac{8}{15}$

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1. (1) $3\frac{3}{4} - 2\frac{2}{3} + 1\frac{1}{2} = \square$
 (2) $\left(1.5 - 0.5 \times 2\frac{2}{3} \right) \div \frac{5}{6} \times \frac{3}{10} = \square$
 (3) $125 \times 7.6 + 12.5 \times 24 = \square$
 (4) $\left(1\frac{2}{3} + \square \right) \div 1.75 - \frac{1}{3} = 1$

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1. (1) $48 \div 3 \times 4 - 2$ を計算しなさい。
 (2) $\left(\frac{6}{7} - \frac{4}{5} \right) \div \frac{2}{7}$ を計算しなさい。
 (3) $\left(20 - \square \right) \div \frac{5}{3} - 1\frac{1}{5} = 3$ のとき、 \square をうめなさい。

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1. (1) $798 \times 0.5 - 2.5 \times 96 + 72 \times 1.25 = \square$
 (2) $3\frac{1}{6} \div \left(\frac{3}{4} - \frac{2}{3} \right) - 5\frac{3}{5} \times \left(6\frac{1}{2} - 2\frac{3}{4} \right) = \square$
 (3) $\left\{ \left(\square - \frac{1}{3} \right) \times 3 - 4 \right\} \times \frac{1}{2} = \frac{5}{4}$
 (4) $8\text{時間}18\text{分} - 6\text{時間}55\text{分}28\text{秒} = \square\text{時間}\square\text{分}\square\text{秒}$

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1. (1) $63 + 42 \div 7 = \square$
 (2) $4\frac{2}{3} \div 1\frac{3}{4} \div 3\frac{1}{5} = \square$
 (3) $5 - 4.75 \times 0.12 = \square$
 (4) $4.2 \div 5 + 2.6 \times 4 = \square$
 (5) $\left(0.8 - \frac{6}{25} \right) \div 1.4 = \square$
 (6) $36 - (108 \div \square - 19) = 28$
 (7) 64m^2 の $\frac{1}{1000}$ は $\square\text{cm}^2$ です。

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$$\begin{aligned} 1^{(1)} & \frac{1}{5} \times \left\{ 1 \div \left(9.1 \times \frac{2}{7} + \frac{3}{5} \right) + \frac{5}{16} \right\} - 2 \times \left(0.15 - \frac{1}{8} \right) \\ & = \frac{16}{5} \times \left\{ 1 \div \left(\frac{13}{10} \times \frac{2}{7} + \frac{3}{5} \right) + \frac{5}{16} \right\} - 2 \times \left(\frac{6}{8} - \frac{1}{8} \right) \\ & = \frac{16}{5} \times \left(\frac{5}{16} + \frac{5}{16} \right) - 2 \times \frac{5}{8} \\ & = \frac{16}{5} \times \frac{10}{16} - \frac{5}{4} = \underline{\underline{\frac{3}{4}}} \end{aligned}$$

$$\begin{aligned} (2) & \frac{4}{5} \times \left\{ \left(\frac{5}{6} - 1.25 \div 2\frac{2}{9} \right) \times \square + 0.375 \right\} = \frac{5}{12} \\ & \frac{4}{5} \times \left\{ \left(\frac{5}{6} - \frac{5}{4} \times \frac{9}{20} \right) \times \square + \frac{3}{8} \right\} = \frac{5}{12} \end{aligned}$$

$$\frac{4}{5} \times \left\{ \left(\frac{40}{48} - \frac{27}{48} \right) \times \square + \frac{3}{8} \right\} = \frac{5}{12}$$

$$\left\{ \frac{13}{48} \times \square + \frac{3}{8} \right\} = \frac{5}{12} \div \frac{4}{5} = \frac{5}{12} \times \frac{5}{4} = \frac{25}{48}$$

$$\frac{13}{48} \times \square = \frac{25}{48} - \frac{3}{8} = \frac{25}{48} - \frac{18}{48} = \frac{7}{48}$$

$$\square = \frac{7}{48} \div \frac{13}{48} = \underline{\underline{\frac{7}{13}}}$$

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$$10 \quad 1 \times 2 \times 1.25 + 3 \times 4 \times 1.25 + 5 \times 6 \times 1.25 + 7 \times 8 \times 1.25$$

$$= 1.25 \times (\underbrace{1 \times 2}_{2} + \underbrace{3 \times 4}_{12} + \underbrace{5 \times 6}_{30} + \underbrace{7 \times 8}_{56})$$

$$= 1.25 \times 100 = \underline{\underline{125}}$$

$$\begin{aligned} ② \quad 2\frac{2}{3} \div \{5.2 - (1\frac{1}{3} + 1.2)\} &= \frac{8}{3} \div 2\frac{10}{15} \\ &= \frac{8}{3} \div \{5.2 - (1\frac{5}{15} + 1\frac{2}{15})\} = \frac{8}{3} \div \{5.2 - 2\frac{7}{15}\} = \frac{8}{3} \div \frac{3}{8} = \underline{\underline{1}} \\ &= \frac{8}{3} \div \{5\frac{3}{15} - 2\frac{7}{15}\} \end{aligned}$$

$$③ \quad 12 \times \frac{2}{5} \div (3 \div \square - 6) = 2$$

$\underbrace{12 \times \frac{2}{5}}_{\frac{24}{5}} \quad \underbrace{3 \div \square}_{①} \quad \underbrace{- 6}_{②}$

$$② = \frac{24}{5} \div 2 = \frac{12}{5} \quad ① = \frac{12}{5} + 6 = \frac{42}{5}$$

$$\square = 3 \div \frac{42}{5} = \frac{1}{2} \times \frac{5}{14} = \underline{\underline{\frac{5}{14}}}$$

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$$1. \quad 0.384 \div 0.24 + \frac{25}{24} \times \frac{8}{12} - \left(5 - \frac{5}{4} + \frac{27}{8}\right) \div \frac{\square}{\square} = \frac{8}{15}$$

$$\begin{aligned} & \frac{384}{1000} \times \frac{100}{24} + \frac{5}{6} - \frac{57}{8} \div \frac{\square}{\square} = \frac{8}{15} \\ & \frac{48}{30} + \frac{25}{30} = \frac{73}{30} \end{aligned}$$

$$\frac{57}{8} \div \frac{\square}{\square} = \frac{73}{30} - \frac{8}{15} = \frac{57}{30} = \frac{19}{10}$$

$$\frac{\square}{\square} = \frac{57}{8} \div \frac{19}{10} = \frac{57}{8} \times \frac{10}{19} = \frac{15}{4}$$

A $\frac{15}{4}$

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$$1^{(1)} \quad 3\frac{3}{4} - 2\frac{2}{3} + 1\frac{1}{2} = 3\frac{9}{12} - 2\frac{8}{12} + 1\frac{6}{12} = 2\frac{7}{12}$$

$$(2) \quad (1.5 - 0.5 \times 2\frac{2}{3}) \div \frac{5}{6} \times \frac{3}{10}$$

$$= \left(\frac{3}{2} - \frac{1}{8} \times \frac{84}{3}\right) \times \frac{6}{5} \times \frac{3}{10} = \left(\frac{9}{6} - \frac{8}{6}\right) \times \frac{6}{5} \times \frac{3}{10} = \frac{1}{5} \times \frac{6}{5} \times \frac{3}{10} = \frac{3}{50}$$

$$(3) \quad 125 \times 9.6 + 12.5 \times 24$$

$$= 125 \times 9.6 + 125 \times 0.1 \times 24 \quad \rightarrow \quad = 125 \times (9.6 + 2.4) = 125 \times 12 = 1500$$

$$(4) \quad \left(\frac{1}{3} + \square\right) \div 1.75 - \frac{1}{3} = 1$$

$$\left(\frac{1}{3} + \square\right) \div 1.75 = 1 + \frac{1}{3} = \frac{4}{3}$$

$$\left(\frac{1}{3} + \square\right) = \frac{4}{3} \times 1.75 = \frac{4}{3} \times \frac{7}{4} = \frac{7}{3}$$

$$\square = \frac{7}{3} - \frac{1}{3} = \frac{2}{3}$$

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$$1 (1) 48 \div 3 \times 4 - 2 = \frac{48 \times 4}{3} - 2 = 64 - 2 = \underline{\underline{62}}$$

$$(2) \left(\frac{6}{7} - \frac{4}{5}\right) \div \frac{2}{7} = \left(\frac{30}{35} - \frac{28}{35}\right) \times \frac{7}{2} = \frac{2}{35} \times \frac{7}{2} = \underline{\underline{\frac{1}{5}}}$$

$$(3) (20 - \square) \div \frac{5}{3} - 1\frac{1}{5} = 3$$

$$(20 - \square) \div \frac{5}{3} = 3 + 1\frac{1}{5} = 4\frac{1}{5} = \frac{21}{5}$$

$$(\quad) = \frac{21}{5} \times \frac{5}{3} = 7 \quad \square = 20 - 7 = \underline{\underline{13}}$$

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$$1 (1) 798 \times 0.5 - 2.5 \times 96 + 72 \times 1.25 \\ = 399 - \frac{5}{2} \times 96 + 72 \times \frac{5}{4} = 399 - 240 + 90 = \underline{\underline{249}}$$

$$(2) 3\frac{1}{6} \div \left(\frac{3}{4} - \frac{2}{3}\right) - 5\frac{3}{5} \times \left(6\frac{1}{2} - 2\frac{3}{4}\right) \\ = \frac{19}{6} \times \frac{12}{1} - \frac{28}{5} \times 3\frac{3}{4} = 38 - \frac{28}{5} \times \frac{15}{4} = 38 - 21 = \underline{\underline{17}}$$

$$(3) \left\{ \left(\square - \frac{1}{3}\right) \times 3 - 4 \right\} \times \frac{1}{2} = \frac{5}{4} \quad \left\{ \quad \right\} = \frac{5}{4} \div \frac{1}{2} = \frac{5}{2}$$

$$(\quad) \times 3 = \frac{5}{2} + 4 = \frac{13}{2} \quad (\quad) = \frac{13}{2} \div 3 = \frac{13}{6}$$

$$\square = \frac{13}{6} + \frac{1}{3} = \frac{15}{6} = \frac{5}{2} = \underline{\underline{2\frac{1}{2}}}$$

$$(4) 8\text{時間}18\text{分} - 6\text{時間}55\text{分}28\text{秒}$$

$$= 7\text{時間}17\text{分}60\text{秒} - 6\text{時間}55\text{分}28\text{秒} = \underline{\underline{1\text{時間}22\text{分}32\text{秒}}}$$

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$$1. (1) 63 + 42 \div 7 = \underline{\underline{69}}$$

$$(2) 4\frac{2}{3} \div 1\frac{3}{4} \div 3\frac{1}{5} = \frac{\cancel{14}^2}{3} \times \frac{\cancel{4}^1}{\cancel{4}_2} \times \frac{5}{\cancel{16}^8} = \underline{\underline{\frac{5}{6}}}$$

$$(3) 5 - 4.75 \times 0.12 = 5 - \frac{\cancel{19}^1}{\cancel{4}_1} \times \frac{\cancel{12}^3}{100} = 5 - 0.57 = \underline{\underline{4.43}}$$

$$(4) 4.2 \div 5 + 2.6 \times 4 = 0.84 + 10.4 = \underline{\underline{11.24}}$$

$$(5) (0.8 - \frac{6}{25}) \div 1.4 = (\frac{4}{5} - \frac{6}{25}) \times \frac{5}{7} = \frac{\cancel{24}^2}{\cancel{25}_5} \times \frac{\cancel{5}^1}{7} = \underline{\underline{\frac{2}{5}}}$$

$$(6) 36 - (108 \div \square - 19) = 28$$

$$(\quad) = 36 - 28 = 8$$

$$108 \div \square = 8 + 19 = 27$$

$$\square = 108 \div 27 = \underline{\underline{4}}$$

$$(7) 64\text{m}^3 \text{ の } \frac{1}{1000} \text{ は } \square \text{ cm}^3 \text{ です。}$$

$$1\text{m}^3 = 1\text{m} \times 1\text{m} \times 1\text{m}$$

$$= 100\text{cm} \times 100\text{cm} \times 100\text{cm}$$

$$= 1000000\text{cm}^3$$

$$64\text{m}^3 = 64000000\text{cm}^3$$

$$64\text{m}^3 \times \frac{1}{1000} = \underline{\underline{64000\text{cm}^3}}$$