

2008 清泉女学院中学校

1. (1) $15 - \{35 - 7 \times (12 - 8)\} = \square$
 (2) $\left(\frac{3}{4} - \frac{3}{8}\right) \times \left(\frac{2}{5} - \square\right) = \frac{1}{10}$
 (3) $4.2 \div 0.54 \times 1.5 + 1.44 \div 0.8 \div 0.4 = \square$
 (4) $7.5 \div 2 \frac{2}{9} - \{36 \times \left(\frac{5}{6} - 0.7\right) - 3\} = \square$
 (5) $4.9 \times \frac{6}{7} - 2 \frac{1}{4} \div \square = 0.45$
 (6) $\square \div 0.7 = 2.4$ あまり 0.02

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1. (1) $40 - 32 \div 8 \times 2$
 (2) $5 - \left(2 \frac{1}{4} - 1.2\right) \div 3.6$
 (3) $1 - \frac{1}{2} + \frac{1}{3} \times \frac{1}{4} + 2 \times \left(\frac{1}{4} + \frac{1}{5}\right) + 3 \times \frac{1}{5} - 2$

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1. (1) $42 + 14 \div 7 \times (57 - 7 \times 6)$
 (2) $1 \frac{1}{6} - 1.75 \div 4 \frac{1}{2} \times \left(1.5 - \frac{6}{7}\right)$

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1. (1) $7.1 - 3 \times (4.5 - 3.6 \div 4 \times 3) = \square$
 (2) $56 \times 11 \times \left(\frac{1}{7} + \frac{3}{14}\right) - 91 \times 17 \times \left(\frac{15}{26} - \frac{1}{2}\right) = \square$
 (3) $3 \frac{1}{2} - \left(2 \frac{7}{8} - \frac{1}{4}\right) \times \frac{4}{7} + \frac{3}{8} = \square$
 (4) $\frac{7}{24} + \left(12 \frac{1}{6} - \square\right) \div 4 \frac{2}{3} = 1 \frac{2}{3}$

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1. (1) $16 + 18 \times 2 - (15 + 19)$
 (2) $1008 \times \frac{3}{8} - 2008 \times \frac{1}{8}$
 (3) $\left(\frac{1}{2} + \frac{1}{3}\right) - \left(\frac{1}{4} + \frac{1}{6}\right)$
 (4) $5.2 \div \frac{1}{5} - 2.6 \times 15 \div 3$

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1. (1) $\frac{3}{4} - 0.4 \times \frac{5}{8} + \left(2 \frac{1}{6} - 1.5\right) \div 1 \frac{1}{3}$ を計算しなさい。

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$$1^{(1)} 15 - \{35 - 7 \times (12 - 8)\} = 15 - \{35 - 28\} = \underline{\underline{8}}$$

$$(2) \left(\frac{3}{4} - \frac{3}{8}\right) \times \left(\frac{2}{5} - \square\right) = \frac{1}{10}$$

$$\frac{3}{8}$$

$$\left(\frac{3}{8}\right) = \frac{1}{10} \div \frac{3}{8} = \frac{1}{10} \times \frac{8}{3} = \frac{4}{15}$$

$$\square = \frac{2}{5} - \frac{4}{15} = \frac{6}{15} - \frac{4}{15} = \underline{\underline{\frac{2}{15}}}$$

$$(3) 4.2 \div 0.54 \times 1.5 + 1.44 \div 0.8 \div 0.4$$

$$= \frac{42}{10} \times \frac{5+0.0}{54} \times \frac{21}{8} + \frac{144}{100} \times \frac{10}{8} \times \frac{5}{2}$$

$$= \frac{35}{3} + \frac{9}{2} = \frac{70}{6} + \frac{27}{6} = \frac{97}{6} = \underline{\underline{16\frac{1}{6}}}$$

$$(4) 7.5 \div 2\frac{2}{9} - \{36 \times (\frac{5}{6} - 0.7) - 3\} = \frac{27}{8} - (\frac{24}{5} - \frac{15}{5})$$

$$= \frac{345}{2} \times \frac{9}{20} - \{36 \times (\frac{15}{30} - \frac{21}{30}) - 3\} = \frac{27}{8} - \frac{9}{5}$$

$$= \frac{27}{8} - (36 \times \frac{4}{30} - 3) = \frac{135}{40} - \frac{72}{40} = \frac{63}{40} = \underline{\underline{1\frac{23}{40}}}$$

$$(5) 4.2 \times \frac{6}{8} - 2\frac{1}{4} \div \square = 0.45$$

$$4.2 - \frac{9}{4} \div \square = \frac{9}{20}$$

$$\frac{9}{4} \div \square = 4.2 - 0.45 = 3.75 = 3\frac{3}{4} = \frac{15}{4}$$

$$\square = \frac{9}{4} \div \frac{15}{4} = \frac{9}{15} = \underline{\underline{\frac{3}{5}}}$$

$$(6) \square \div 0.7 = 2.4 \text{ 或 } 0.02$$

$$\square = 0.7 \times 2.4 + 0.02 = \underline{\underline{1.7}}$$

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$$1 \text{ (1) } 40 - 32 \div 8 \times 2 = 40 - \frac{32 \times 2}{8} = 40 - 8 = \underline{\underline{32}}$$

$$(2) 5 - (2\frac{1}{4} - 1.2) \div 3.6 = 5 - \frac{2\frac{1}{4}}{1.05} \times \frac{10}{36} = 5 - \frac{7}{24} = \underline{\underline{4\frac{17}{24}}}$$

$$\begin{aligned} (3) & 1 - \frac{1}{2} + \frac{1}{3} \times \frac{1}{4} + 2 \times (\frac{1}{4} + \frac{1}{5}) + 3 \times \frac{1}{5} - 2 \\ &= \frac{1}{2} + \frac{1}{12} + \frac{9}{10} + \frac{3}{5} - 2 \\ &= \frac{30 + 5 + 54 + 36}{60} - 2 = \frac{125}{60} - 2 = \frac{5}{60} = \underline{\underline{\frac{1}{12}}} \end{aligned}$$

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$$1 \text{ (1) } 42 + 14 \div 7 \times (57 - 1 \times 6) = 42 + 30 = \underline{\underline{72}}$$

$$\begin{aligned} (2) & 1\frac{1}{6} - 1.75 \div 4\frac{1}{2} \times (1.5 - \frac{6}{7}) \\ &= 1\frac{1}{6} - \frac{7}{2} \times \frac{8}{9} \times (\frac{3}{2} - \frac{6}{7}) \\ &= 1\frac{1}{6} - \frac{8}{2} \times \frac{1}{8} \times \frac{9}{14} \\ &= 1\frac{1}{6} - \frac{1}{4} \\ &= 1\frac{2}{12} - \frac{3}{12} \\ &= \underline{\underline{\frac{11}{12}}} \end{aligned}$$

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$$1^{(1)} 7.1 - 3 \times (4.5 - \overset{0.9}{\cancel{2.6}} \times 3)$$

$$= 7.1 - 3 \times (4.5 - 2.7) = \underline{1.7}$$

1.8
5.4

$$(2) 56 \times 11 \times (\frac{1}{7} + \frac{3}{14}) - 91 \times 17 \times (\frac{15}{26} - \frac{1}{2})$$

$$= \overset{4}{\cancel{56}} \times 11 \times \frac{\overset{7}{\cancel{5}}}{\underset{1}{\cancel{14}}} - \overset{7}{\cancel{91}} \times 17 \times \frac{\overset{3}{\cancel{15}}}{\underset{1}{\cancel{26}}} = 220 - 119 = \underline{101}$$

$$(3) 3\frac{1}{2} - (2\frac{7}{8} - \frac{1}{4}) \times \frac{4}{7} + \frac{3}{8}$$

$$= 3\frac{1}{2} - 2\frac{5}{8} \times \frac{4}{7} + \frac{3}{8}$$

$$= 3\frac{1}{2} - \frac{\overset{3}{\cancel{24}}}{\underset{2}{\cancel{8}}} \times \frac{\overset{1}{\cancel{4}}}{\underset{1}{\cancel{7}}} + \frac{3}{8} = 2 + \frac{3}{8} = \underline{2\frac{3}{8}}$$

$$(4) \frac{7}{24} + (\underbrace{12\frac{1}{6}}_{\textcircled{1}} - \underbrace{\square}_{\textcircled{2}}) \div 4\frac{2}{3} = 1\frac{2}{3}$$

$$\textcircled{2} = 1\frac{2}{3} - \frac{7}{24} = \frac{5}{3} - \frac{7}{24} = \frac{40}{24} - \frac{7}{24} = \frac{\overset{11}{\cancel{33}}}{\underset{8}{\cancel{24}}} = 1\frac{3}{8}$$

$$\textcircled{1} = 1\frac{3}{8} \times 4\frac{2}{3} = \frac{11}{\underset{4}{\cancel{8}}} \times \frac{\overset{2}{\cancel{14}}}{\underset{3}{\cancel{3}}} = \frac{11}{12} = 6\frac{5}{12}$$

$$\square = 12\frac{1}{6} - 6\frac{5}{12} = 11\frac{14}{12} - 6\frac{5}{12}$$
$$= 5\frac{9}{12}$$

$$= \underline{\underline{5\frac{3}{4}}}$$

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$$1^{(1)} \quad 16 + \underbrace{18 \times 2}_{36} - \underbrace{(15 + 19)}_{34} = \underline{\underline{18}}$$

$$(2) \quad \cancel{1008} \times \frac{3}{\cancel{8}_1} - \cancel{2008} \times \frac{1}{\cancel{8}_1} = 378 - 251 = \underline{\underline{127}}$$

$$(3) \quad \left(\frac{1}{2} + \frac{1}{3}\right) - \left(\frac{1}{4} + \frac{1}{6}\right) = \underbrace{\left(\frac{6}{12} + \frac{4}{12}\right)}_{\frac{10}{12}} - \underbrace{\left(\frac{3}{12} + \frac{2}{12}\right)}_{\frac{5}{12}} = \underline{\underline{\frac{5}{12}}}$$

$$(4) \quad 5.2 \div \frac{1}{5} - 2.6 \times 15 \div 3 \\ = 5.2 \times 5 - \frac{26}{\cancel{10}_2} \times \cancel{15}_3 \times \frac{1}{3} = 26 - 13 = \underline{\underline{13}}$$

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$$1^{(1)} \quad \frac{3}{4} - 0.4 \times \frac{5}{8} + (2\frac{1}{6} - 1.5) \div \frac{1}{3} \\ = \frac{3}{4} - \frac{\cancel{4}_1}{\cancel{5}_1} \times \frac{\cancel{5}_1}{\cancel{8}_4} + (1\frac{1}{6} - 1\frac{3}{6}) \times \frac{3}{4} \\ = \frac{1}{2} + \frac{\cancel{1}_1}{\cancel{2}_2} \times \frac{\cancel{3}_1}{\cancel{4}_1} = \underline{\underline{1}}$$