

2008 帝京中学校

1. ① $27+91 \div 7 = \square$
 ② $\frac{8}{21} - \frac{3}{14} + \frac{5}{6} = \square$
 ③ $1.4 \div 5 + 1.9 = \square$
 ④ $\frac{3}{4} \div (18 - 3 \times 5) + 0.25 = \square$

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1. (1) $2 \div 3 \div 4 + (13 - 3 \times 2) \div 3 = \square$
 (2) $\left(\frac{1}{3} + \frac{1}{2}\right) \div \frac{2}{5} \times \frac{3}{5} + \left(\frac{1}{4} - \frac{1}{6}\right) = \square$
 (3) $\frac{1}{4} - 0.25 \times \left\{2 \frac{1}{3} \times \left(0.2 - \frac{1}{8}\right) + 0.7\right\} = \square$
 (4) $\left\{\frac{1}{2} \div (1 + \square) + 0.5\right\} \times 4 = \frac{7}{2}$

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1. (1) $5.4 \times 0.5 + (7.2 - 0.9) \times 2 = \square$
 (2) $\frac{2}{3} \div 1 \frac{1}{3} + \left(\frac{4}{7} - \frac{1}{2}\right) \times 7 = \square$
 (3) $83 \times 46 + 17 \times 54 + 46 \times 17 + 46 \times 83 = \square$
 (4) $(20 - \square) \div 2 - 6 = 3$

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1. (1) $108 \div \{21 - (39 \div 3 - 5 \times 2)\}$
 (2) $7.9 + (9.6 + 2.7) \div 2.46$
 (3) $\frac{1}{3} - \frac{4}{5} \div 1 \frac{3}{5} \times \frac{1}{2} + \frac{1}{6}$

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1. (1) $2 \div 6 \times 72 - 4$ を計算しなさい。
 (2) $\left(4 \frac{1}{3} - 2 \frac{3}{4}\right) \div 2 \frac{3}{8}$ を計算しなさい。
 (3) $5.7 \times 3.15 + 1.9 \times 0.55$ を計算しなさい。

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1. (1) $80 - 40 \div 2 \times 4$ を計算しなさい。
 (2) $(0.5 \times 0.75 + 2.5 \times 0.25) \div (0.25 \times 0.5)$ を計算しなさい。
 (3) $2 \frac{5}{8} - \frac{4}{3} - \frac{3}{4}$ を計算しなさい。
 (4) $2.74 \times 3.21 + 2.74 \times 7.77 - 2.74 \times 0.98$ を計算しなさい。
 (5) $\frac{15}{14} \times \left(\frac{4}{5} - \frac{2}{7}\right) \div \frac{9}{7} - \frac{2}{7}$ を計算しなさい。

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1. ① $27 + 91 \div 7$

$= 27 + 13$

$= \underline{\underline{40}}$

② $\frac{8}{21} - \frac{3}{14} + \frac{5}{6}$

$= \frac{16}{42} - \frac{9}{42} + \frac{35}{42} = \frac{42}{42} = \underline{\underline{1}}$

③ $1.4 \div 5 + 1.9$

$= 0.28 + 1.9$

$= \underline{\underline{2.18}}$

$$\begin{array}{r} 0.28 \\ 5 \overline{) 1.4} \\ \underline{10} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

④ $\frac{3}{4} \div (18 - 3 \times 5) + 0.25$

$= \frac{3}{4} \div 3 + \frac{1}{4}$

$= \frac{1}{4} + \frac{1}{4} = \underline{\underline{\frac{1}{2}}}$

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1. (1) $2 \div 3 \div 4 + (13 - 3 \times 2) \div 3$

$$= 2 \times \frac{1}{3} \times \frac{1}{4} + 7 \div 3$$

$$= \frac{1}{6} + \frac{7}{3} = \frac{1}{6} + \frac{14}{6} = \frac{15}{6} = \underline{\underline{2\frac{1}{2}}}$$

(2) $(\frac{1}{3} + \frac{1}{2}) \div \frac{2}{5} \times \frac{3}{5} + (\frac{1}{4} - \frac{1}{6})$

$$= \frac{5}{2} \times \frac{5}{2} \times \frac{3}{5} + \frac{1}{12}$$

$$= \frac{5}{4} + \frac{1}{12} = \frac{16}{12} = \underline{\underline{\frac{4}{3}}}$$

(3) $\frac{1}{4} - 0.25 \times \{2\frac{1}{3} \times (0.2 - \frac{1}{8}) + 0.7\}$

$$= \frac{1}{4} - \frac{1}{4} \times \left\{ \frac{7}{3} \times \frac{3}{40} + \frac{7}{10} \right\}$$

$$= \frac{1}{4} - \frac{1}{4} \times \frac{35}{8} = \frac{8}{32} - \frac{7}{32} = \underline{\underline{\frac{1}{32}}}$$

(4) $\left\{ \frac{1}{2} \div (1 + \square) + 0.5 \right\} \times 4 = \frac{7}{2}$

①
②
③

$$\textcircled{3} = \frac{7}{2} \div 4 = \frac{7}{8}$$

$$\textcircled{2} = \frac{7}{8} - 0.5 = \frac{3}{8}$$

$$\textcircled{1} = \frac{1}{2} \div \frac{3}{8} = \frac{1}{2} \times \frac{8}{3} = \frac{4}{3}$$

$$\square = \frac{4}{3} - 1 = \underline{\underline{\frac{1}{3}}}$$

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4. (1) $5.4 \times 0.5 + (7.2 - 0.9) \times 2$

$$= 2.7 + 12.6$$

$$= \underline{15.3}$$

$$\begin{array}{r} 5.4 \\ \times 0.5 \\ \hline 2.70 \end{array} \quad \begin{array}{r} 7.2 \\ - 0.9 \\ \hline 6.3 \\ \times 2 \\ \hline 12.6 \end{array}$$

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

$$= \frac{2}{3} \times \frac{3}{1} + (\frac{8}{14} - \frac{7}{14}) \times 7$$

$$= \frac{1}{2} + \frac{1}{14} \times 7 = \underline{\underline{1}}$$

(3) $83 \times 46 + \underbrace{17 \times 54}_{100} + \underbrace{46 \times 17}_{92} + 46 \times 83$

$$= 17 \times (54 + 46) + 83 \times 46 \times 2$$

$$= 1700 + 7636$$

$$= \underline{\underline{9336}}$$

$$\begin{array}{r} 83 \\ \times 92 \\ \hline 166 \\ 747 \\ \hline 7636 \end{array}$$

(4) $(20 - \square) \div 2 - 6 = 3$
① ②

$$\textcircled{2} = 3 + 6 = 9$$

$$\textcircled{1} = 9 \times 2 = 18$$

$$\square = 20 - 18 = \underline{\underline{2}}$$

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$$1. (1) 108 \div \{21 - (\underbrace{39 \div 3}_{13} - \underbrace{5 \times 2}_{10})\}$$

$$= 108 \div 18$$

$$= \frac{\cancel{108}^{12}}{\cancel{18}_2} = \underline{\underline{6}}$$

$$(2) 7.9 + (9.6 + 2.9) \div 2.46$$

$$= 7.9 + 12.3 \div 2.46$$

$$= 7.9 + \frac{\cancel{123}^1}{\cancel{123}_2} \times \frac{\cancel{108}}{\cancel{246}_2}$$

$$= 7.9 + 5 = \underline{\underline{12.9}}$$

$$(2) \frac{1}{3} - \frac{4}{5} \div \frac{3}{5} \times \frac{1}{2} + \frac{1}{6}$$

$$= \frac{1}{3} - \frac{\cancel{4}^1}{\cancel{5}_1} \times \frac{\cancel{5}^1}{\cancel{5}_2} \times \frac{1}{2} + \frac{1}{6}$$

$$= \frac{1}{3} - \frac{1}{4} + \frac{1}{6}$$

$$= \frac{4}{12} - \frac{3}{12} + \frac{2}{12}$$

$$= \frac{3}{12} = \underline{\underline{\frac{1}{4}}}$$

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$$1 \quad (1) \quad 2 \div 6 \times 12 - 4$$

$$= \frac{2 \times \cancel{12}^{12}}{\cancel{6}_1} - 4$$

$$= 24 - 4 = \underline{\underline{20}}$$

$$(2) \quad \left(4\frac{1}{3} - 2\frac{3}{4}\right) \div 2\frac{3}{8}$$

$$= \left(3\frac{16}{12} - 2\frac{9}{12}\right) \times \frac{8}{19}$$

$$= \frac{\cancel{19}^{19} \times \cancel{8}^2}{\cancel{12}_3 \times \cancel{12}} = \underline{\underline{\frac{2}{3}}}$$

$$(3) \quad \underbrace{5.7}_{(1.9 \times 3)} \times 3.15 + 1.9 \times 0.55$$

$$= 1.9 \times 3 \times 3.15 + 1.9 \times 0.55$$

$$= 1.9 \times (9.45 + 0.55)$$

$$= 1.9 \times 10 = \underline{\underline{19}}$$

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1. (1) $80 - 40 \div 2 \times 4$

$$= 80 - \frac{40 \times 4^2}{2} = \underline{\underline{0}}$$

(2) $(0.5 \times 0.75 + 2.5 \times 0.25) \div (0.25 \times 0.5)$

$$= (0.5 \times 0.25 \times 3 + 0.5 \times 5 \times 0.25) \div (0.25 \times 0.5)$$

$$= \cancel{0.5} \times \cancel{0.25} \times (3+5) \div (\cancel{0.25} \times \cancel{0.5}) = \underline{\underline{8}}$$

(3) $2\frac{5}{8} - \frac{4}{3} - \frac{3}{4}$

$$= \frac{63}{24} - \frac{32}{24} - \frac{18}{24} = \underline{\underline{\frac{13}{24}}}$$

(4) $2.74 \times 3.21 + 2.74 \times 7.77 - 2.74 \times 0.98$

$$= 2.74 \times (3.21 + 7.77 - 0.98)$$

$$= 2.74 \times 10 = \underline{\underline{27.4}}$$

(5) $\frac{15}{14} \times (\frac{4}{5} - \frac{2}{7}) \div \frac{9}{7} - \frac{2}{7}$

$$= \frac{3 \times 15}{\cancel{14}^2} \times \frac{\cancel{4}^2}{\cancel{5}^2} \times \frac{\cancel{7}^1}{\cancel{7}^1} - \frac{2}{7}$$

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

$$= \underline{\underline{\frac{1}{7}}}$$