

2008 富士見丘中学校

1. (1) $365 - \{96 - (74 - 53) \div 3\}$ を計算しなさい。
 (2) $2\frac{3}{8} + \left\{ (3.6 - 2) \div \frac{8}{9} \right\} \times \frac{5}{6}$ を計算しなさい。
 (3) 次の にあてはまる数を求めなさい。
 $316 + 317 + \text{} + 682 + 683 + 684 = 3000$

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1. (1) $(5 + 1) \div 2 \times 3$ を計算しなさい
 (2) $\left(\frac{2}{3} + \frac{1}{2}\right) \div \left(\frac{1}{2} - \frac{1}{3}\right)$ を計算しなさい。
 (3) $\left(\frac{1}{4} + 0.5 - \frac{1}{3}\right) \times 6$ を計算しなさい。

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1. $4 + 27 \times \left(19.5 \div 1\frac{31}{34} + 64.03\right)$

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1. (1) $0.01 \div \frac{1}{10000} + 0.001 \div 0.1 + 0.0001 \div \frac{1}{1000} + 0.1 \div 0.01 = \text{}$
 (2) $\left(3\frac{2}{3} + \text{} \times \frac{3}{4} - 2\frac{1}{4}\right) \div \frac{5}{6} = 8$
 (3) $\frac{1}{5 \times 6} = \frac{1}{5} - \frac{1}{6}$ を利用して計算すれば,
 $\frac{1}{5 \times 6} + \frac{1}{6 \times 7} + \frac{1}{7 \times 8} + \frac{1}{8 \times 9} + \frac{1}{9 \times 10} = \text{}$
 となります。

2008 聖園女学院中学校

1. (1) $60 - 32 \div 4 - 5 \times 17 + 89$
 (2) $11 \times 11 \times 3.9 - 11 \times 17 \times 1.1 - 20 \times 1.1 \times 1.1$
 (3) $\frac{1}{8} + 0.87 - \left(0.25 - \frac{1}{5}\right) + 0.011 \times 5$
2. (1) $24 \div (\text{} - 9 \times 5) + 8 = 12$
 (2) $\frac{1}{2} : \frac{1}{3} : 4 = 18 : \text{} : \text{}$

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2. (1) $\frac{5}{6} \times 1.6 - \frac{1}{2} \times 1.5$
 (2) $2 - 3\frac{1}{3} \div 2\frac{7}{9} + \frac{4}{5}$
 (3) $1\frac{4}{13} \div \left(\frac{1}{4} + 0.26\right) \times (100 - 61)$

2008 武蔵野女子学院中学校

1. (1) $\frac{1}{12} + \frac{2}{3} - \frac{1}{2} = \text{}$
 (2) $\frac{3}{7} + \frac{1}{7} \times 3\frac{1}{2} = \text{}$
 (3) $3\frac{3}{5} \div 1.2 - 2\frac{5}{8} \div 5.25 = \text{}$
 (4) $27 + (136 - \text{}) \div 4 = 51$
 (5) $177.1 \div 0.23 = \text{}$
 (6) $2.47 \times 3.14 + 7.53 \times 3.14 = \text{}$

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$$1. (1) \quad 365 - \{96 - \underbrace{(74 - 53)}_{21} \div 3\} = 365 - 89 = \underline{\underline{276}}$$

$$\begin{aligned} (2) \quad & 2\frac{3}{8} + \left\{ \underbrace{(3.6 - 2)}_{1.6} \div \frac{8}{9} \right\} \times \frac{5}{6} \\ &= 2\frac{3}{8} + \cancel{1.6} \times \frac{9}{8} \times \frac{5}{6} = 2\frac{3}{8} + 1.5 = 2\frac{3}{8} + 1\frac{4}{8} = \underline{\underline{3\frac{7}{8}}} \end{aligned}$$

$$(3) \quad \underbrace{316 + 317}_{633} + \square + \underbrace{682 + 683 + 684}_{683 \times 3 = 2049} = 3000$$

$$\square = 3000 - 2049 - 633 = 318$$

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$$1. (1) \quad \underbrace{(5+1)}_6 \div 2 \times 3 = \frac{\cancel{6} \times 3}{2} = \underline{\underline{9}}$$

$$\begin{aligned} (2) \quad & \left(\frac{2}{3} + \frac{1}{2} \right) \div \left(\frac{1}{2} - \frac{1}{3} \right) \\ &= \frac{7}{6} \times \frac{6}{1} = \underline{\underline{7}} \end{aligned}$$

$$\begin{aligned} (3) \quad & \left(\frac{1}{4} + \underbrace{0.5}_{(\frac{1}{2})} - \frac{1}{3} \right) \times 6 \\ &= \left(\frac{3}{12} + \frac{6}{12} - \frac{4}{12} \right) \times 6 \\ &= \frac{5}{12} \times \cancel{6} = \underline{\underline{2\frac{1}{2}}} \end{aligned}$$

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$$1. \quad 4 + 27 \times (19.5 \div 1 \frac{31}{34} + 64.03) \quad \frac{51}{5} = 10.2$$

$$= 4 + 27 \times \left(\frac{39}{2} \times \frac{17}{65} + 64.03 \right)$$

$$= 4 + 27 \times \left(\frac{51}{5} + 64.03 \right) = 4 + 27 \times (10.2 + 64.03)$$

$$= 4 + 2004.21 = \underline{2008.21}$$

$$\begin{array}{r} 74.23 \\ \times \quad 27 \\ \hline 51961 \\ 14846 \\ \hline 2004.21 \end{array}$$

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$$1. \quad (1) \quad 0.01 \div \frac{1}{10000} + 0.001 \div 0.1 + 0.0001 \div \frac{1}{1000} + 0.1 \div 0.01$$

$$= 0.01 \times 10000 + 0.001 \times 10 + 0.0001 \times 1000 + 0.1 \times 100$$

$$= 100 + 0.01 + 0.1 + 10 = \underline{110.11}$$

$$(2) \quad \left(3\frac{2}{3} + \boxed{} \times \frac{3}{4} - 2\frac{1}{4} \right) \div \frac{5}{6} = 8$$

$$\left(\right) = 8 \times \frac{5}{6} = \frac{20}{3}$$

$$\textcircled{2} = \frac{20}{3} + 2\frac{1}{4} = \frac{80}{12} + \frac{27}{12} = \frac{107}{12}$$

$$\textcircled{1} = \frac{107}{12} - 3\frac{2}{3} = \frac{63}{12} \quad \boxed{} = \frac{63}{12} \div \frac{3}{4} = \frac{63}{12} \times \frac{4}{3} = \underline{7}$$

$$(3) \quad \frac{1}{5 \times 6} + \frac{1}{6 \times 7} + \frac{1}{7 \times 8} + \frac{1}{8 \times 9} + \frac{1}{9 \times 10}$$

$$= \frac{1}{5} - \frac{1}{6} + \frac{1}{6} - \frac{1}{7} + \frac{1}{7} - \frac{1}{8} + \frac{1}{8} - \frac{1}{9} + \frac{1}{9} - \frac{1}{10}$$

$$= \frac{1}{5} - \frac{1}{10} = \underline{\underline{\frac{1}{10}}}$$

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1 (1) $60 - 32 \div 4 - 5 \times 17 + 89 = 52 + 89 - 85 = \underline{\underline{56}}$ 作文ミス
(52) (85)
 小学生レベルで(一)の答が途中に出てしまう。

(2) $11 \times 11 \times 3.9 - 11 \times 17 \times 1.1 - 20 \times 1.1 \times 1.1$
 $= 11 \times 11 \times 3.9 - 11 \times 17 \times 1.1 - 20 \times 11 \times 0.1 \times 1.1$
 $= 11 \times 11 \times (3.9 - 1.7 - 0.2)$
 $= 121 \times 2 = \underline{\underline{242}}$

(3) $\frac{1}{8} + 0.89 - (0.25 - \frac{1}{5}) + 0.01 \times 5$ 小数にた方が早い
 $= \frac{0.125}{0.995} + 0.89 - \frac{0.05}{0.945} + 0.055 = \underline{\underline{1}}$

2 (1) $24 \div (\square - 9 \times 5) + 8 = 12$
(45) (1) (2)
 $\textcircled{2} = 12 - 8 = 4 \quad \textcircled{1} = 24 \div 4 = 6$
 $\square = 6 + 45 = \underline{\underline{51}}$

(2) $\frac{1}{2} : \frac{1}{3} : 4 = 18 : \square : \square$
 $\xrightarrow{\times 36} \quad \downarrow \quad \rightarrow$
 $\frac{1}{3} \times 36 = \underline{\underline{12}} \quad 4 \times 36 = \underline{\underline{144}}$

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$$2. (1) \frac{5}{6} \times 1.6 - \frac{1}{2} \times 1.5 = \frac{5}{6} \times \frac{3}{5} - \frac{1}{2} \times \frac{1}{2}$$

$$= \frac{1}{3} \times \frac{8}{5} - \frac{1}{2} \times \frac{3}{2} = \frac{4}{3} - \frac{3}{4} = \frac{16}{12} - \frac{9}{12} = \underline{\underline{\frac{7}{12}}}$$

$$(2) 2 - 3\frac{1}{3} \div 2\frac{7}{9} + \frac{4}{5} = 2 - \frac{10}{3} \times \frac{9}{25} + \frac{4}{5} = 2 - \frac{6}{5} + \frac{4}{5} = \frac{4}{5} + \frac{4}{5} = \underline{\underline{\frac{8}{5}}}$$

$$(3) \frac{4}{13} \div \left(\frac{1}{4} + 0.26 \right) \times (100 - 61)$$

$$= \frac{4}{13} \div \left(\frac{25}{100} + \frac{26}{100} \right) \times 39 = \frac{4}{13} \div \frac{51}{100} \times 39 = \underline{\underline{100}}$$

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$$1. (1) \frac{1}{12} + \frac{2}{3} - \frac{1}{2} = \frac{1}{12} + \frac{8}{12} - \frac{6}{12} = \frac{3}{12} = \underline{\underline{\frac{1}{4}}}$$

$$(2) \frac{3}{7} + \frac{1}{7} \times \frac{1}{2} = \frac{3}{7} + \frac{1}{14} = \frac{6}{14} + \frac{1}{14} = \underline{\underline{\frac{7}{14}}}$$

$$(3) 3\frac{3}{5} \div 1.2 - 2\frac{5}{8} \div 5.25 = \frac{18}{5} \div \frac{6}{5} - \frac{21}{8} \div \frac{21}{4} = 3 - \frac{1}{2} = 2\frac{1}{2} \quad (2.5)$$

$$(4) 27 + (136 - \square) \div 4 = 51 \quad (136 - \square) \div 4 = 51 - 27 = 24$$

$$(\quad) = 24 \times 4 = 96 \quad \square = 136 - 96 = \underline{\underline{40}}$$

$$(5) 177.1 \div 0.23 = \underline{\underline{770}}$$

$$\begin{array}{r} 770. \\ 0.23 \overline{) 177.10} \\ \underline{161} \\ 161 \\ \underline{161} \\ 0 \end{array}$$

$$(6) \underline{2.47} \times \underline{3.14} + \underline{7.53} \times \underline{3.14} = 3.14 \times (2.47 + 7.53) \\ = 3.14 \times 10 \\ = \underline{\underline{31.4}}$$