

2008 共立女子中学校

- ① $\left(\frac{7}{8} + \frac{1}{2} \times \frac{2}{3} - \frac{5}{6}\right) \div \frac{1}{48}$ を計算しなさい。
② $9 \times 8 \times 6 - 3 \times 4 \times 12 - 6 \times 6 \times 2 \times 2$ を計算しなさい。

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- ① (1) $47 - \{70 - (14 - 8) \times 9\} \times 2 + 4$ を計算しなさい。
(2) $7.4 \times 14.7 \div 6.3 \times 3 \div 3.7$ を計算しなさい。
(3) $5\frac{1}{7} \div \frac{9}{5} - \frac{9}{14} \div \frac{3}{8}$ を計算しなさい。
(4) \square にあてはまる整数を求めなさい。
 $\{4 + (\square - 3) \times 2\} \div 7 = 4$

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- ① (1) $\left(1\frac{4}{5} - 5\frac{1}{4} \div 4\frac{2}{3}\right) \times 4\frac{4}{9}$
(2) $\left(0.75 - \frac{1}{2}\right) \div \left(\frac{2}{3} - 0.25\right) \div \left(0.2 + \frac{2}{5}\right)$

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- ① (1) 次の計算をしなさい。
 $60 \div 0.6 - (3.9 - 0.3 \times 0.2) \div 0.12$
(2) 次の \square にあてはまる数を答えなさい。
 $\left(6 - \square \div \frac{3}{10}\right) \times \frac{10}{21} = 2\frac{2}{7}$

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① $\left(\frac{1}{11} + \frac{2}{15}\right) \times 3 + \left(\frac{4}{15} + \frac{5}{13}\right) \times 6 + \left(\frac{\square}{13} + \frac{8}{11}\right) = 9$

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- ① (1) $6 \times (1 + 2 \times 4) - (7 \times 2 - 8) \times 7 - 3 \div (5 \div 2 - 1) = \square$
(2) $9 \div 1.25 \div 2\frac{2}{5} - 1.6 \div \left(\frac{3}{5} - \frac{1}{15}\right) = \square$
(3) $4 \times \{3 - 2 \times (1 - \square)\} + 8 = 16$

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- ① ① $75 + 168 \div 3 - 17 \times 7 = \square$
② $\left(1\frac{1}{3} \times 3 - 2\frac{3}{5}\right) \div 3\frac{1}{2} \times 3\frac{3}{4} = \square$
③ $2.5 + \square \div 0.25 \div 0.08 = 10$
④ $208 - \{23 - (\square - 2)\} \times \frac{2}{3} = 196$

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$$1. ① \left(\frac{7}{8} + \frac{1}{2} \times \frac{2}{3} - \frac{5}{6} \right) \div \frac{1}{48}$$

$$= \left(\frac{21}{24} + \frac{8}{24} - \frac{20}{24} \right) \times 48 = \frac{9}{24} \times 48 = \underline{\underline{18}}$$

$$② \underbrace{9 \times 8 \times 6}_{432} - \underbrace{3 \times 4 \times 12}_{144} - \underbrace{6 \times 6 \times 2 \times 2}_{144} = \underline{\underline{144}}$$

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$$1. (1) 47 - \left\{ 70 - \underbrace{(14 - 8) \times 9}_{\substack{6 \times 9 \\ 54}} \right\} \times 2 + 4 = \underline{\underline{19}}$$

(16, 32)

$$(2) 7.4 \times 14.7 \div 6.3 \times 3 \div 3.7$$

$$= \frac{74}{10} \times \frac{147}{10} \times \frac{10}{63} \times \frac{1}{3} \times \frac{10}{37} = \underline{\underline{14}}$$

$$(3) 5\frac{1}{7} \div \frac{9}{5} - \frac{9}{14} \div \frac{3}{8} = \frac{36}{7} \times \frac{5}{9} - \frac{9}{14} \times \frac{8}{3} = \frac{8}{7} = \underline{\underline{1\frac{1}{7}}}$$

$$(4) \{ 4 + (\square - 3) \times 2 \} \div 7 = 4$$

$$\{ \quad \} = 7 \times 4 = 28$$

$$(\quad) \times 2 = 28 - 4 = 24 \quad (\quad) = 24 \div 2 = 12$$

$$\square - 3 = 12 \quad \square = 12 + 3 = \underline{\underline{15}}$$

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$$1. (1) \left(1\frac{4}{5} - 5\frac{1}{4} \div 4\frac{2}{3}\right) \times 4\frac{4}{9} = \frac{3}{24} \times \frac{1}{1} = \underline{\underline{3}}$$

$$= \left(\frac{9}{5} - \frac{21}{4} \times \frac{3}{\frac{14}{2}}\right) \times \frac{40}{9}$$

$$= \left(\frac{12}{40} - \frac{45}{40}\right) \times \frac{40}{1}$$

$$(2) \left(0.75 - \frac{1}{2}\right) \div \left(\frac{2}{3} - 0.25\right) \div \left(0.2 + \frac{2}{5}\right)$$

$$= \frac{1}{4} \div \frac{5}{12} \div \frac{3}{5} = \frac{1}{4} \times \frac{12}{5} \times \frac{5}{3} = \underline{\underline{1}}$$

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$$1. (1) 60 \div 0.6 - (3.9 - 0.3 \times 0.2) \div 0.12$$

$$= 60 \times \frac{5}{3} - \frac{3.9}{1} \times \frac{100}{12}$$

$$= 100 - 32 = \underline{\underline{68}}$$

$$(2) \left(6 - \square \div \frac{3}{10}\right) \times \frac{10}{21} = 2\frac{2}{5}$$

$$\left(\quad\right) = \frac{16}{7} \times \frac{21}{5} = \frac{24}{5}$$

$$\square \div \frac{3}{10} = 6 - \frac{24}{5} = \frac{6}{5}$$

$$\square = \frac{3}{5} \times \frac{6}{5} = \underline{\underline{\frac{9}{25}}}$$

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$$1 \quad (1) \quad \left(\frac{1}{11} + \frac{2}{15}\right) \times 3 + \left(\frac{4}{15} + \frac{5}{13}\right) \times 6 + \left(\frac{\square}{13} + \frac{8}{11}\right) = 9$$

$$\left(\frac{15}{11 \times 15} + \frac{22}{11 \times 15}\right) \times 3 + \left(\frac{52}{15 \times 13} + \frac{75}{15 \times 13}\right) \times 6 + \frac{\square \times 11}{13 \times 11} + \frac{104}{13 \times 11} = 9$$

$$\frac{37 \times 3}{11 \times 15} + \frac{127 \times 6}{15 \times 13} + \frac{104}{13 \times 11} + \frac{\square \times 11}{13 \times 11} = 9$$

$$\frac{37 \times 3 \times 3 + 127 \times 6 \times 11 + 104 \times 15 + \square \times 11 \times 15}{11 \times 13 \times 15} = 9$$

$$\underbrace{(1443 + 8382 + 1560)}_{11385} + \square \times 165 = \underbrace{(11 \times 13 \times 15)}_{2145} \times 9$$

$$(\quad) = 9 \times 2145 = 19305$$

$$\square \times 165 = 19305 - 11385 = 7920$$

$$\square = 7920 \div 165 = \underline{\underline{48}}$$

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$$\begin{aligned} 1^{(1)} & 6 \times (1 + 2 \times 4) - (7 \times 2 - 8) \times 7 - 3 \div (5 \div 2 - 1) \\ & = 6 \times 9 - 6 \times 7 - 3 \div \frac{3}{2} \\ & = 54 - 42 - 2 = \underline{\underline{10}} \end{aligned}$$

$$\begin{aligned} (2) & 9 \div 1.25 \div 2\frac{2}{5} - 1.6 \div (\frac{3}{5} - \frac{1}{15}) \\ & = 9 \div \frac{5}{4} \div \frac{12}{5} - \frac{16}{10} \div \frac{8}{15} \\ & = \frac{3}{1} \times \frac{4}{5} \times \frac{5}{12} - \frac{16}{10} \times \frac{15}{8} = 3 - 3 = \underline{\underline{0}} \end{aligned}$$

$$(3) 4 \times \{3 - 2 \times (1 - \square)\} + 8 = 16$$

$$\{ \quad \} = (16 - 8) \div 4 = 2$$

$$2 \times (\quad) = 3 - 2 = 1 \quad (\quad) = 1 \div 2 = \frac{1}{2} \quad \square = 1 - \frac{1}{2} = \underline{\underline{\frac{1}{2}}}$$

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$$1 \textcircled{1} 75 + \underbrace{168 \div 3}_{56} - \underbrace{17 \times 7}_{119} = 131 - 119 = \underline{\underline{12}}$$

$$\textcircled{2} (\underbrace{1\frac{1}{3} \times 3}_{4} - 2\frac{3}{5}) \div 3 \times \frac{1}{2} \times 3\frac{3}{4} = \frac{1}{8} \times \frac{2}{1} \times \frac{15^3}{2} = \frac{3}{2} = \underline{\underline{1\frac{1}{2}}} \quad (1.5)$$

$$\textcircled{3} 2.5 + \square \div 0.25 \div 0.08 = 10 \quad \square \div 0.25 \div 0.08 = 10 - 2.5 = 7.5$$

$$\square = \frac{7.5}{\frac{1}{4} \times \frac{2}{25}} = \underline{\underline{0.15}} \quad (\frac{3}{20})$$

$$\textcircled{4} 208 - \{23 - (\square - 2)\} \times \frac{2}{3} = 196$$

$\swarrow \quad \searrow$
 $\textcircled{2} \quad \textcircled{1}$
 $\quad \quad \textcircled{3}$

$$\textcircled{3} = 208 - 196 = 12 \quad \square = 5 + 2 = \underline{\underline{7}}$$

$$\textcircled{2} = 12 \div \frac{2}{3} = 18$$

$$\textcircled{1} = 23 - 18 = 5$$