

2008 世田谷学園中学校

1. (1)  $\left(3\frac{1}{2} \times 0.2 + \frac{3}{5} \div \frac{2}{3}\right) \times 3\frac{1}{8} - \left(3\frac{2}{7} - 2\right) \div 3$

2008 高輪中学校

1. (1)  $\left\{\left(2\frac{1}{3} - 1\frac{1}{15}\right) \div 6\frac{1}{3} \times 10 - 0.6\right\} \div 0.7 = \square$

(2)  $\left(1.75 - \frac{1}{8}\right) \times \square \div \frac{13}{48} = 30$

(3)  $0.05\text{km}^2 - 330\text{a} + 7000\text{m}^2 = \square\text{ha}$

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1. (1)  $1\frac{1}{6} - \frac{3}{4} + \frac{1}{3}$

(2)  $7.5 \times 1.2 - 2.1 \div 1.4$

(3)  $2\frac{2}{9} \div \left(3\frac{1}{10} - 2.5\right) \div \left(\frac{1}{18} + 1\frac{1}{3}\right)$

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

(2)  $(0.36 + \square) \times 2 - \frac{5}{4} = 3$

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1. (1)  $9 - 3 \times 2 + 12 \div 6$

(2)  $76 + 77 + 78 + 79 + 80 + 81 + 82 + 83 + 84$

(3)  $4.5 \times \left(\frac{2}{3} - \frac{2}{9}\right) + \frac{1}{5} \div \frac{1}{7}$

2. (1) ①  $15 + 5 \times \square - 10 = 50$

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1. (1)  $3.5 \div 5 + \frac{2}{9} \times 2\frac{1}{4}$  を計算しなさい。

(2)  $\left(7\frac{1}{4} - 4\frac{1}{3}\right) \div 13\frac{1}{8} + \frac{5}{84} \times \frac{7}{10}$  を計算しなさい。

(3)  $77 - 12.5 \times 4 + \square \div 2 = 51$  の  $\square$  に当てはまる数を求めなさい。

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1. (1)  $2 \times 2 \times 3 \times 5 + 4 \times 3 \times 3 - 12 \times 5 = \square$

(2)  $1 - \frac{1}{2} + \frac{1}{4} - \frac{1}{8} + \frac{1}{16} - \frac{1}{32} + \frac{1}{64} = \square$

(3)  $30 \times 0.2 + 0.5 \times 40 + 0.5 \times 0.2 \times 10 = \square$

2008 本郷中学校

1. (1)  $5 - \left\{\frac{5}{7} + \left(0.625 + 1\frac{2}{3}\right) \div \frac{5}{6}\right\} \div 1.25 = \square$

(2)  $(6 \times 3 - \square - 8 \div 2) \div 6 + \square = 4$

ただし、(2)の  $\square$  には同じ数が入ります。

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$$\begin{aligned}
 1 \quad (1) & \left( 3\frac{1}{2} \times 0.2 + \frac{3}{5} \div \frac{2}{3} \right) \times \frac{1}{8} - \left( 3\frac{2}{7} - 2 \right) \div 3 \\
 & = \left( \frac{7}{2} \times \frac{1}{5} + \frac{3}{5} \times \frac{3}{2} \right) \times \frac{25}{8} - 1\frac{2}{7} \times \frac{1}{3} \\
 & = \frac{\cancel{1} \times \cancel{16}}{\cancel{10}} \times \frac{\cancel{25}}{\cancel{8}} - \frac{\cancel{2} \times \cancel{1}}{\cancel{7}} \times \frac{1}{\cancel{3}} \\
 & = 5 - \frac{3}{7} = \underline{\underline{4\frac{4}{7}}}
 \end{aligned}$$

2008 高輪 中学

$$\begin{aligned}
 1 \quad (1) & \left\{ \left( 2\frac{1}{3} - 1\frac{1}{15} \right) \div 6\frac{1}{3} \times 10 - 0.6 \right\} \div 0.7 \\
 & = \left\{ \left( 2\frac{5}{15} - 1\frac{1}{15} \right) \times \frac{3}{19} \times 10 - 0.6 \right\} \div 0.7 \\
 & = \left( 1\frac{4}{15} \times \frac{3}{19} \times 10 - 0.6 \right) \times \frac{10}{7} \\
 & = \left( \frac{\cancel{1} \times \cancel{4}}{\cancel{15}} \times \frac{\cancel{3}}{\cancel{19}} \times \cancel{10}^2 - 0.6 \right) \times \frac{10}{7} \\
 & = \frac{0.2}{1.4} \times \frac{10}{7} = \underline{\underline{2}}
 \end{aligned}$$

$1 \text{ km}^2 = 100 \text{ ka}$   
 $1 \text{ ka} = 100 \text{ a}$   
 $1 \text{ a} = 100 \text{ m}^2$

$$(2) \left( 1.75 - \frac{1}{8} \right) \times \square \div \frac{13}{48} = 30$$

①   ②

$$(2) = 30 \times \frac{13}{\cancel{48}} = \frac{65}{8}$$

$$\begin{aligned}
 (1) & = 1\frac{3}{4} - \frac{1}{8} & \square & = \frac{65}{8} \div 1\frac{5}{8} \\
 & = 1\frac{6}{8} - \frac{1}{8} & & = \frac{65}{\cancel{8}} \times \frac{\cancel{8}}{13} \\
 & = 1\frac{5}{8} & & = \underline{\underline{5}}
 \end{aligned}$$

$$\begin{aligned}
 (3) & 0.05 \text{ km}^2 - 330 \text{ a} + 7000 \text{ m}^2 = \square \text{ ka} \\
 & = 5 \text{ ka} - 3.3 \text{ ka} + 0.7 \text{ ka} \\
 & \quad \quad \quad \underline{1.7 \text{ ka}} \\
 & = \underline{\underline{2.4 \text{ ka}}}
 \end{aligned}$$

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$$\begin{aligned} 1. (1) \quad & 1\frac{1}{6} - \frac{3}{4} + \frac{1}{3} \\ &= \frac{14}{12} - \frac{9}{12} + \frac{4}{12} \\ &= \frac{9}{12} = \underline{\underline{\frac{3}{4}}} \end{aligned}$$

$$\begin{aligned} (2) \quad & 7.5 \times 1.2 - 2.1 \div 1.4 \\ &= \frac{315}{10} \times \frac{6}{5} - \frac{21}{10} \times \frac{10}{14} \\ &= 9 - \frac{3}{2} = \underline{\underline{7\frac{1}{2}}} \end{aligned}$$

$$\begin{aligned} (3) \quad & 2\frac{2}{9} \div (3\frac{1}{10} - 2.5) \div (\frac{1}{18} + 1\frac{1}{3}) \quad \frac{1}{18} + \frac{4}{3} (\frac{24}{18}) \\ &= \frac{20}{9} \div \frac{3}{5} \div \frac{25}{18} \\ &= \frac{20}{9} \times \frac{5}{3} \times \frac{18}{25} = \frac{8}{3} = \underline{\underline{2\frac{2}{3}}} \end{aligned}$$

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$$\begin{aligned} 1. (1) \quad & 1 - 3 \div \frac{3}{2} \times (1\frac{1}{4} - \frac{1}{3}) \div 2 \\ &= 1 - \frac{1}{1} \times \frac{8}{3} \times \frac{11}{12} \times \frac{1}{2} = \underline{\underline{\frac{1}{12}}} \end{aligned}$$

$$\begin{aligned} 1\frac{1}{4} - \frac{1}{3} &= \frac{5}{4} - \frac{1}{3} \\ &= \frac{15-4}{12} \end{aligned}$$

$$(2) \quad (0.35 + \square) \times 2 - \frac{5}{4} = 3$$

①      ②

$$\textcircled{2} = \frac{5}{4} + 3 = \frac{17}{4}$$

$$\textcircled{1} = \frac{17}{4} \div 2 = \frac{17}{8}$$

$$\square = \frac{17}{8} - 0.35$$

$$= \frac{85}{40} - \frac{14}{40}$$

$$= \frac{71}{40} = \underline{\underline{1\frac{31}{40}}}$$

$$0.35 = \frac{35}{100} = \frac{7}{20}$$

$$\text{計値} \\ \underline{\underline{(1.775)}}$$

2008 那須高原海城中学

$$1 \text{ (i) } 9 - 3 \times 2 + 12 \div 6$$
$$= 9 - 6 + 2$$
$$= \underline{\underline{5}}$$

$$\begin{aligned} (2) \quad & 76 + 77 + 78 + 79 + 80 + 81 + 82 + 83 + 84 \\ &= (76 + 84) \times 9 \div 2 \\ &= \frac{160 \times 9}{2} = \underline{720} \end{aligned}$$

$$(3) \quad 4.5 \times \left(\frac{2}{3} - \frac{2}{9}\right) + \frac{1}{5} \div \frac{1}{7}$$

$$= \frac{\cancel{9}^1}{\cancel{2}^1} \times \frac{\cancel{4}^2}{\cancel{9}^1} + \frac{1}{5} \times \frac{7}{1} = 2 + \frac{7}{5} = \underline{\underline{3\frac{2}{5}}} \quad \text{主分母} \quad \underline{\underline{(3.4)}}$$

2. " ) ①  $15 + 5 \times \square - 10 = 50$

( ② ① )

$$\begin{aligned} \textcircled{2} &= 50 + 10 = 60 \\ \textcircled{1} &= 60 - 15 = 45 \\ \square &= 45 \div 5 = \underline{9} \end{aligned}$$

$$\begin{aligned} \textcircled{2} &= 50 + 10 = 60 \\ \textcircled{1} &= 60 - 15 = 45 \\ \square &= 45 \div 5 = \underline{9} \end{aligned}$$

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$$1. \text{ " } 3,5 \div 5 + \frac{2}{9} \times 2 \frac{1}{4} = 0,7 + \frac{2}{9} \times \frac{9}{2} = \underline{\underline{1,2}}$$

$$(2) \left( 7\frac{1}{4} - 4\frac{1}{3} \right) \div 13\frac{1}{8} + \frac{1}{\cancel{24}} \times \frac{\cancel{8}}{\cancel{10}} = \frac{\cancel{35}}{\cancel{42}} \times \frac{\cancel{8}^2}{\cancel{105}_3} + \frac{1}{24} = \frac{16}{72} + \frac{3}{72} = \underline{\underline{\frac{19}{72}}}$$

⑤)  $77 - 12.5 \times 4 + \square \div 2 = 51$   
 $\quad \quad \quad \underbrace{\quad \quad \quad}_{27} \quad \underbrace{\quad \quad \quad}_{50} \quad \underbrace{\quad \quad \quad}_{\textcircled{1}}$

$$\textcircled{1} = 51 - 27 = 24$$

$$\square = 24 \times 2 = \underline{\underline{48}}$$

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$$1^{(1)} \quad \underbrace{2 \times 2 \times 3}_{10} \times 5 + 4 \times \underbrace{3 \times 3}_9 - 12 \times 5$$

$$= 60 + 36 - 60 = \underline{\underline{36}}$$

$$(2) \quad 1 - \frac{1}{2} + \frac{1}{4} - \frac{1}{8} + \frac{1}{16} - \frac{1}{32} + \frac{1}{64}$$

$$= \frac{64 - 32 + 16 - 8 + 4 - 2 + 1}{64} = \underline{\underline{\frac{43}{64}}}$$

$$(3) \quad 30 \times 0.2 + 0.5 \times 40 + 0.5 \times 0.2 \times 10$$

$$= 6 + 20 + 1 = \underline{\underline{27}}$$

2008 本郷中学

$$1^{(1)} \quad 5 - \left\{ \frac{5}{7} + (0.625 + 1\frac{2}{3}) \div \frac{5}{6} \right\} \div 1.25 = 5 - \left( \frac{5}{7} + \frac{11}{4} \right) \times \frac{4}{5}$$

$$= 5 - \left\{ \frac{5}{7} + \left( \frac{5}{8} + \frac{5}{3} \right) \times \frac{6}{5} \right\} \div \frac{5}{4} = 5 - \frac{97}{28} \times \frac{4}{5}$$

$$= 5 - \left( \frac{5}{7} + \frac{15+40}{28} \times \frac{6}{5} \right) \times \frac{4}{5} = 5 - \frac{97}{35} = \underline{\underline{2\frac{8}{35}}}$$

$$(2) \quad (6 \times 3 - \square - 8 \div 2) \div 6 + \square = 4$$

$$6 \times 3 \div 6 - \square \div 6 - 4 \div 6 + \square = 4$$

$$3 - \frac{\square}{6} - \frac{2}{3} + \square = 4$$

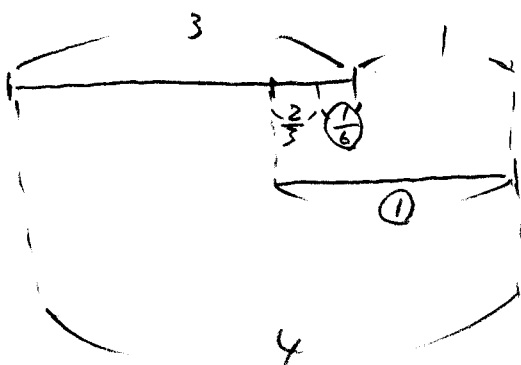
方程式が簡単だが...  
小学生は習っていない

$$\square = ① \text{ とする}$$

$$① - \frac{1}{6} = \frac{5}{6} = 1\frac{2}{3}$$

$$① = 1\frac{2}{3} \div \frac{5}{6}$$

$$= \frac{5}{3} \times \frac{6}{5} = 2$$



A.2