

2008 東京成徳大学中学校

1. (1) $393+397+400+403+407$ を計算しなさい。
 (2) $\frac{1}{2}+\frac{1}{6}+\frac{5}{12}-\frac{5}{60}$ を計算しなさい。
 (3) $\frac{32}{9}\div\frac{64}{36}\times\frac{15}{6}$ を計算しなさい。

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1. (1) $(4.5-2\frac{2}{3})\times 1.2-1\frac{3}{4}=\square$
 (2) $2\frac{1}{2}\div 3+(\frac{1}{6}+\frac{2}{3})\div 0.75=\square$
 (3) $6.4-2.1\div(\square-\frac{1}{4})=5\frac{1}{5}$

2008 東京農業大学第一高等学校中等部

1. (1) $(\frac{1}{3}+\frac{1}{5}+\frac{1}{7})\div(3+5+2\frac{1}{7})$ を計算しなさい。
 (2) 999×9999 を計算しなさい。
 (3) $3\div(\square\times 1\frac{7}{8}+0.25)+\frac{1}{4}=1$ のとき, \square にあてはまる数を答えなさい。

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1. (1) $42.1\div(11.92-10.5\div 3)\div 1.5=\square$
 (2) $1.75\div 2\frac{5}{8}-\left(\frac{3}{4}+\frac{1}{3}\right)\div\square=\frac{11}{18}$

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1. (1) $49-\{20+7\times(43-\square)\}\div 6=8$
 (2) $\frac{2}{9}\div\left(5\frac{1}{3}-\frac{2}{3}\div\square\right)=\frac{1}{6}$

2008 日本大学第一中学校

1. (1) $15\times 3+2-105\div 7=\square$
 (2) $0.6\times 2.41+7.59\times\frac{3}{5}=\square$
 (3) $150-\{75-(20-12)\div 8\}\times 2=\square$
 (4) $0.8-\frac{6}{\square}=\frac{1}{20}$
 (5) $\left(0.2+\frac{1}{4}\right)\times\frac{10}{7}\div\square=\frac{27}{70}$

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$$1. (1) \quad 393 + 397 + 400 + 403 + 407 = 800 \times 2 + 400 = \underline{\underline{2000}}$$

$$(2) \quad \frac{1}{2} + \frac{1}{6} + \frac{5}{12} - \frac{5}{60}$$

$$= \frac{30}{60} + \frac{10}{60} + \frac{25}{60} - \frac{5}{60} = \frac{60}{60} = \underline{\underline{1}}$$

$$(3) \quad \frac{32}{9} \div \frac{64}{36} \times \frac{15}{6}$$

$$= \frac{32}{9} \times \frac{36}{64} \times \frac{15}{6} = \underline{\underline{5}}$$

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$$1. (1) \quad (4.5 - 2\frac{2}{3}) \times 1.2 - 1\frac{3}{4}$$

$$= (4\frac{3}{6} - 2\frac{4}{6}) \times 1.2 - 1\frac{3}{4} = \frac{11}{6} \times \frac{6}{5} - 1\frac{3}{4} = 2.2 - 1.75 = \underline{\underline{0.45}} \quad (\frac{9}{20})$$

$$(2) \quad 2\frac{1}{2} \div 3 + (\frac{1}{6} + \frac{2}{3}) \div 0.75$$

$$= \frac{5}{2} \times \frac{1}{3} + (\frac{1}{6} + \frac{4}{6}) \times \frac{4}{3} = \frac{5}{6} + \frac{5}{3} \times \frac{5}{3} = \frac{15}{18} + \frac{20}{18} = \frac{35}{18} = \underline{\underline{1\frac{17}{18}}}$$

$$(3) \quad 6.4 - 2.1 \div (\square - \frac{1}{4}) = 5\frac{1}{5}$$

$$\textcircled{2} = 6.4 - 5\frac{1}{5} = 1.2$$

$$\textcircled{1} = 2.1 \div 1.2 = \frac{21}{12} = 1\frac{3}{4}$$

$$\square = \frac{1}{4} + 1\frac{3}{4} = \underline{\underline{2}}$$

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$$\begin{aligned} 1. (1) & \left(\frac{1}{3} + \frac{1}{5} + \frac{1}{7}\right) \div \left(3 + 5 + 2\frac{1}{7}\right) \\ &= \frac{5 \times 7 + 3 \times 7 + 3 \times 5}{3 \times 5 \times 7} \div 10\frac{1}{7} \\ &= \frac{\cancel{7}'}{3 \times 5 \times \cancel{7}'} \times \frac{\cancel{7}'}{\cancel{7}'} = \underline{\underline{\frac{1}{15}}} \end{aligned}$$

$$\begin{aligned} (2) \quad 999 \times 9999 &= 999 \times (10000 - 1) \\ &= 9990000 - 999 \\ &= \underline{\underline{9989001}} \end{aligned}$$

$$(3) \quad 3 \div \left(\square \times 1\frac{7}{8} + 0.25 \right) + \frac{1}{4} = 1$$

① ② ③

$$\textcircled{3} = 1 - \frac{1}{4} = \frac{3}{4}$$

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

$$\textcircled{1} = 4 - 0.25 = 3\frac{3}{4} = \frac{15}{4}$$

$$\square = \frac{15}{4} \div 1\frac{7}{8}$$

$$= \frac{15}{4} \times \frac{8}{15}$$

$$= \underline{\underline{2}}$$

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1. (1) $42.1 \div (11.92 - 10.5 \div 3) \div 1.5$

$= 42.1 \div (11.92 - 3.5) \div 1.5$

$= \frac{421}{10} \times \frac{100}{842} \times \frac{2}{3} = \frac{10}{3} = \underline{\underline{3\frac{1}{3}}}$

(2) $1.75 \div 2\frac{5}{8} - (\frac{3}{4} + \frac{1}{3}) \div \square = \frac{11}{18}$

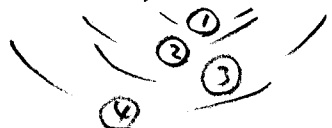
$\frac{7}{4} \times \frac{8}{25} - \frac{13}{12} \div \square = \frac{11}{18}$

$\frac{13}{12} \div \square = \frac{2}{3} - \frac{11}{18} = \frac{1}{18}$

$\square = \frac{13}{12} \div \frac{1}{18} = \frac{13}{12} \times \frac{18}{1} = \frac{39}{2} = \underline{\underline{19\frac{1}{2}}} \quad (19.5)$

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1. (1) $49 - \{20 + 7 \times (43 - \square) \div 6\} = 8$



④ = $49 - 8 = 41$

③ = $41 - 20 = 21$

② = $6 \times 21 = 126$

① = $126 \div 7 = 18$

$\square = 43 - 18 = \underline{\underline{25}}$

(2) $\frac{2}{9} \div (5\frac{1}{3} - \frac{2}{3} \div \square) = \frac{1}{6}$



② = $\frac{2}{9} \div \frac{1}{6} = \frac{2}{9} \times \frac{6}{1} = \frac{4}{3}$

① = $5\frac{1}{3} - \frac{4}{3} = 4$

$\square = \frac{2}{3} \div 4 = \underline{\underline{\frac{1}{6}}}$

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$$1. (1) 15 \times 3 + 2 - 105 \div 7$$
$$= \underset{47}{45 + 2} - 15 = \underline{\underline{32}}$$

$$(2) 0.6 \times 2.41 + 7.59 \times \frac{3}{5}$$
$$= 0.6 \times (2.41 + \underset{10}{7.59}) = \underline{\underline{6}}$$

$$(3) 150 - \{75 - (20 - 12) \div 8\} \times 2$$
$$= 150 - \{75 - 8 \div 8\} \times 2$$
$$= 150 - 74 \times 2$$
$$= 150 - 148 = \underline{\underline{2}}$$

$$(4) 0.8 - \frac{6}{\square} = \frac{1}{20} \quad \frac{6}{\square} = 0.8 - \frac{1}{20}$$
$$= \frac{16}{20} - \frac{1}{20} = \frac{15}{20} = \frac{3}{4} = \frac{6}{8}$$
$$\square = \underline{\underline{8}}$$

$$(5) (0.2 + \frac{1}{4}) \times \frac{10}{7} \div \square = \frac{27}{70}$$

$$(\frac{4}{20} + \frac{5}{20}) \times \frac{10}{7} \div \square = \frac{27}{70}$$

$$\frac{9}{\cancel{20}_2} \times \frac{\cancel{10}}{7} \div \square = \frac{27}{70}$$

$$\frac{9}{14} \div \square = \frac{27}{70}$$

$$\square = \frac{9}{14} \div \frac{27}{70} = \frac{\cancel{9}^1}{\cancel{14}_2} \times \frac{\cancel{70}^5}{\cancel{27}_3} = \underline{\underline{1\frac{2}{3}}}$$