

2008 春日部共栄中学校

- 1、 (1) 次の計算をしなさい。
 $1.25 - \left(\frac{3}{5} \div 1 \frac{3}{5} + \frac{7}{8} \right) \times \frac{4}{5}$
 (2) 次の に適当な数を入れなさい。
 $6 - \left\{ 1 \frac{5}{12} \div \left(\frac{5}{\text{input type="text"}} + \frac{2}{3} \right) \right\} \times 3 = 2 \frac{22}{31}$

2008 神奈川大学附属中学校

- 1、 (1) $0.25 \times 82 - \frac{3}{4} \times 9 + 2.5 \times 4.5 = \text{input type="text"}$
 (2) $8 \frac{2}{5} \div 7 \times \left\{ 2 \frac{1}{9} - \left(\frac{1}{6} + \frac{1}{4} \right) \times 1 \frac{1}{15} \right\} = \text{input type="text"}$
 (3) $(48 - \text{input type="text"} \times 2) \div 5 + 2 = 10$

2008 関東学院六浦中学校

- 1、 (1) $123 - 45 + 67$
 (2) $1428 \div 7 - 4392 \div 24$
 (3) $0.25 \times 1.2 - 0.125 \times 0.8$
 (4) $12 - \left(3.6 + 1 \frac{2}{5} \right) \times 0.3$
 (5) $3.21 \times 4 + 6.42 \times 3$
 (6) $135 \times 421 \times \left(\frac{1}{135} - \frac{1}{421} \right)$

- 2、 (1) $3 : 1.25 = \text{input type="text"} : \frac{5}{8}$

2008 共栄学園中学校

- 1、 (1) $43 + 59 - 88$
 (2) $\frac{2}{3} + \frac{4}{5} - \frac{1}{6}$
 (3) $707 \div 126 \times 18$
 (4) $58 - 4 \times \{ (26 - 19) \div 2 \}$
 (5) $\frac{4}{5} - \left(\frac{1}{4} - \frac{1}{6} \right) \div 3 \times 0.4$
 (6) $\left(20 \frac{2}{3} - 5 \times \text{input type="text"} \right) \div 3.5 = 4$
 にあてはまる数を求めなさい。

2008 関東学院中学校

- 1、 $(8.6 - 2.9) \div \left(\frac{3}{7} + \frac{1}{4} \right) \div 0.7$

2008 公文国際学園中等部

- 1、 (1) $25 \times 0.3 \div 2.5 + 7 = \text{input type="text"}$
 (2) $3.14 \times 4.38 + 9.42 \times 0.54 + 31.4 \times \frac{3}{10} = \text{input type="text"}$
 (3) $\left(\frac{1}{2} - \text{input type="text"} \right) \div 0.25 + \frac{3}{4} = 1.75$

2008 春日部栄栄中学

$$1. (1) 1.25 - \left(\frac{3}{5} \div 1\frac{3}{5} + \frac{7}{8} \right) \times \frac{4}{5}$$

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

$$= \frac{5}{4} - \frac{2}{8} \times \frac{4}{5} = \underline{\underline{\frac{1}{4}}}$$

$$(2) 6 - \left\{ 1\frac{5}{12} \div \left(\frac{5}{\square} + \frac{2}{3} \right) \right\} \times 3 = 2\frac{22}{31}$$

$\underbrace{\quad \quad \quad}_{\textcircled{2}} \quad \textcircled{1} \quad \underbrace{\quad \quad \quad}_{\textcircled{3}}$

$$\textcircled{3} = 6 - 2\frac{22}{31} = 3\frac{9}{31} = \frac{102}{31}$$

$$\textcircled{2} = \frac{102}{31} \div 3 = \frac{34}{31} \quad \textcircled{1} = \frac{17}{12} \div \frac{34}{31} = \frac{17}{12} \times \frac{31}{34} = \frac{31}{24}$$

$$\frac{5}{\square} = \frac{31}{24} - \frac{2}{3} = \frac{15}{24} = \frac{5}{8}$$

$$\square = \underline{\underline{8}}$$

2008 神奈川大学附属中学

$$1. (1) 0.25 \times 82 - \frac{3}{4} \times 9 + 2.5 \times 4.5$$

(0.25 = 0.25 \times 3)

$$= 0.25 \times 82 - 0.25 \times 3 \times 9 + 0.25 \times 10 \times 4.5$$

$$= 0.25 \times (82 - 27 + 45) = \underline{\underline{25}}$$

$$(2) 8\frac{2}{5} \div 7 \times \left\{ 2\frac{1}{9} - \left(\frac{1}{6} + \frac{1}{4} \right) \times 1\frac{1}{15} \right\}$$

$$= \frac{42}{5} \times \frac{1}{7} \times \left\{ \frac{19}{9} - \frac{5}{12} \times \frac{4}{15} \right\}$$

$$= \frac{2}{1} \times \frac{75}{3}$$

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

$$(2) (48 - \square \times 2) \div 5 + 2 = 10$$

$\underbrace{\quad \quad \quad}_{\textcircled{2}} \quad \textcircled{1} \quad \underbrace{\quad \quad \quad}_{\textcircled{3}}$

$$\textcircled{3} = 10 - 2 = 8$$

$$\textcircled{2} \div 5 = 8 \quad \textcircled{2} = 8 \times 5 = 40$$

$$48 - \textcircled{1} = 40 \quad \textcircled{1} = 48 - 40 = 8$$

$$\square \times 2 = 8 \quad \square = 8 \div 2 = \underline{\underline{4}}$$

2008 關東学院六浦中学

$$1. (1) \quad 123 - 45 + 67 = 78 + 67 = \underline{\underline{145}}$$

先

$$(2) \quad 1428 \div 7 - 4392 \div 24$$

$$= 204 - 183$$

$$= \underline{\underline{21}}$$

$$\begin{array}{r} 183 \\ 24 \overline{) 4392} \\ \underline{24} \\ 199 \\ \underline{192} \\ 72 \\ \underline{72} \\ 0 \end{array}$$

$$(3) \quad 0.25 \times 1.2 - 0.125 \times 0.8$$

$$= \frac{1}{2} \times \frac{6}{5} - \frac{1}{8} \times \frac{8}{10}$$

$$= \frac{3}{10} - \frac{1}{10} = \underline{\underline{\frac{2}{5}}} \quad (0.2)$$

$$(4) \quad 12 - (3.6 + 1\frac{2}{5}) \times 0.3$$

(1.4)

$$= 12 - 5 \times 0.3$$

$$= 12 - 1.5$$

$$= \underline{\underline{10.5}}$$

$$(5) \quad 3.21 \times 4 + 6.42 \times 3$$

$$= 12.84 + 19.26$$

$$= \underline{\underline{32.1}}$$

$$(6) \quad 135 \times 421 \times (\frac{1}{135} - \frac{1}{421})$$

$$= \cancel{135}^1 \times \cancel{421}^1 \times \frac{421 - 135}{\cancel{135}_1 \times \cancel{421}_1}$$

$$= \underline{\underline{286}}$$

$$2. (1) \quad 3 : 1.25 = \square : \frac{5}{8}$$

$$\square = 3 \times \frac{5}{8} \div 1.25 \quad (\frac{5}{6})$$

$$= 3 \times \frac{5}{8} \times \frac{1}{1.25} \quad (\frac{5}{6})$$

$$= \frac{1}{2} \quad (\underline{\underline{1.5}})$$

2008 共栄学園 中学

1. (1) $43 + 59 - 88$

$$= 102 - 88$$

$$= \underline{\underline{14}}$$

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

$$= \frac{20}{30} + \frac{24}{30} - \frac{5}{30}$$

$$= \frac{39}{30} = \frac{13}{10} = \underline{\underline{1\frac{3}{10}}}$$

(3) $707 \div 126 \times 18 = \frac{707}{\frac{126}{\frac{18}{1}}} = \underline{\underline{101}}$

(4) $58 - 4 \times \{(26 - 19) \div 2\}$

$$= 58 - 4 \times \frac{7}{2}$$

$$= 58 - 14 = \underline{\underline{44}}$$

(5) $\frac{4}{5} - (\frac{1}{4} - \frac{1}{6}) \div 3 \times 0.4$

$$= \frac{4}{5} - \frac{1}{2} \times \frac{1}{3} \times \frac{2}{5}$$

$$= \frac{72}{90} - \frac{10}{90} = \underline{\underline{\frac{62}{90}}}$$

(6) $(20\frac{2}{3} - 5 \times \text{①}) \div 3.5 = 4$

$$(\quad) = 4 \times 3.5 = 14$$

$$20\frac{2}{3} - \text{①} = 14$$

$$\text{①} = 20\frac{2}{3} - 14 = 6\frac{2}{3}$$

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

$$\square = \frac{20}{3} \div 5$$

$$= \frac{20}{3} \times \frac{1}{5} = \underline{\underline{\frac{4}{3}}}$$

2008 関東学院中学

$$1. (8.6 - 2.9) \div (\frac{3}{7} + \frac{1}{4}) \div 0.7$$

$$= 5.7 \div \frac{19}{28} \div 0.7$$

$$= \frac{\overset{3}{52}}{\underset{1}{10}} \times \frac{\overset{4}{28}}{\underset{1}{19}} \times \frac{\overset{10}{10}}{\underset{1}{7}} = \underline{\underline{12}}$$

2008 公文国際学園 中等部

$$1. (1) 25 \times 0.3 \div 2.5 + 7$$

$$= \frac{\overset{1}{25}}{\underset{1}{25}} \times \frac{\overset{3}{3}}{\underset{1}{10}} \times \frac{\overset{2}{2}}{\underset{1}{5}} + 7$$

$$= 3 + 7 = \underline{\underline{10}}$$

$$(2) 3.14 \times 4.38 + \underline{9.42} \times 0.54 + 31.4 \times \frac{3}{10}$$

$$= 3.14 \times 4.38 + \underline{3.14 \times 3 \times 0.54} + 3.14 \times \overset{1}{10} \times \frac{\overset{3}{3}}{\underset{1}{10}}$$

$$= 3.14 \times (4.38 + \underline{1.62} + 3)$$

$$= 3.14 \times 9 = \underline{\underline{28.26}}$$

$$(3) \underbrace{(\frac{1}{2} - \square)}_{\textcircled{1}} \div \underbrace{0.25}_{(\frac{1}{4})} + \underbrace{\frac{3}{4}}_{(\frac{7}{4})} = 1.75$$

$$\textcircled{2} = \frac{7}{4} - \frac{3}{4} = 1$$

$$\textcircled{1} \div \frac{1}{4} = 1$$

$$\textcircled{1} = 1 \times \frac{1}{4} = \frac{1}{4}$$

$$\frac{1}{2} - \square = \frac{1}{4}$$

$$\square = \frac{1}{2} - \frac{1}{4}$$

$$= \underline{\underline{\frac{1}{4}}} \quad (0.25)$$