

2008 相模女子大学中学部

1. (1)  $(19 - \square) \times 2 + 6 = 30$   
 (2)  $9999 + 999 + 99 + 9 + 4 = \square$   
 (3)  $(6.2 \times 4 - 5 \times 2.8) \div 0.4 = \square$   
 (4)  $2\frac{3}{4} + \left\{0.5 + \frac{1}{3} \times 0.6\right\} \div 2\frac{4}{5} = \square$   
 (5)  $\left\{\left(\frac{1}{2} + \frac{1}{4} + \frac{1}{8}\right) \div \left(\frac{1}{3} + \frac{1}{6} + \frac{1}{12}\right)\right\} \times \square = 9$

2. (1)  $31.4 \div 0.8$ を計算して商を整数まで求めたときの余りは $\square$ です。

2008 実践女子学園中学校

1. ①  $66 \times (54 - 26 \div 2) \div 123 - (93 - 29) \div 8 = \square$   
 ②  $\frac{5}{6} - 2\frac{3}{8} \div \left(12.5 - 2\frac{2}{3} \times 3.5\right) = \square$   
 ③  $2\frac{2}{7} \div 1\frac{\square}{21} - \left(3.6 - 2.95 \div 3\frac{11}{16}\right) \times \frac{3}{7} = 0.3$   
 ④  $(13 - 9 \div 3) \times 4 - 40 \div \square + 18 - \square \div \square \times 10 = 40$   
 ただし、3つの $\square$ にはすべて同じ数が入ります。  
 ⑤  $4\text{km} \times 132\text{m} - 30.23\text{ha} + 39300\text{m}^2 = \square\text{a}$

2008 品川女子学院中等部

1. (1)  $\left(0.3 - \frac{1}{4}\right) \div 0.2 + 1\frac{3}{4}$ を計算しなさい。  
 (2)  $6 - 3 \times (\square - 2.1) \div \frac{1}{2} = 4\frac{3}{5}$ の $\square$ にあてはまる数を求めなさい。

2008 十文字中学校

1. (1)  $4 \times 3 - 12 \div (12 - 3 \times 2) = \square$   
 (2)  $2.3 \times \frac{5}{6} - \left(3\frac{5}{6} - 1\frac{5}{8}\right) \div 5.3 = \square$   
 (3)  $\frac{3}{5} \times (28 + \square \div 4) = 24$

2008 淑徳与野中学校

1. (1)  $1\frac{2}{3} \times 0.8 + \left(\frac{5}{6} - \frac{3}{4}\right) \div 0.125$ を計算しなさい。  
 (2)  $2.4\text{時間} - 10\frac{7}{12}\text{分} + 3635\text{秒}$ は何分ですか。

2008 頤栄女子学院中学校

1. ①  $9 \times 8 \times 7 \times 6 \times 5 \times 4 - 7 \times 6 \times 5 \times 4 \times 3 \times 2 = \square$   
 ②  $0.84 \div 4\frac{2}{3} + \left(1.125 - \frac{5}{8}\right) \times 0.16 = \square$   
 ③  $1.15 \div 0.05 - 31.9 \times 0.3 - 1.17 \div 0.15 = \square$   
 ④  $[\square - \{21 \div (9 - 3 \times 2)\} \times 15 \div (5 - 2)] \div 3 - 5 = 30$

2008 相模女子大学中学部

$$1 \text{ (1)} (19 - \square) \times 2 + 6 = 30 \quad (\quad) = (30 - 6) \div 2 = 12 \quad \square = 19 - 12 = \underline{\underline{7}}$$

$$\begin{aligned} (2) & 9999 + 999 + 99 + 9 + 4 \\ & \quad \quad \quad (1+1+1+1) \\ & = (9999+1) + (999+1) + (99+1) + (9+1) \\ & = 10000 + 1000 + 100 + 10 = \underline{\underline{11110}} \end{aligned}$$

$$\begin{aligned} (3) & \quad \quad \quad \begin{array}{r} 6.2 \times 4 = 24.8 \\ 5 \times 2.8 = 14 \end{array} \\ & \quad \quad \quad \div 0.4 \\ & = 10.8 \div 0.4 = \underline{\underline{27}} \end{aligned}$$

$$\begin{aligned} (4) & 2\frac{3}{4} + \left\{ 0.5 + \frac{1}{2} \times \frac{0.2}{0.6} \right\} \div 2\frac{4}{5} \\ & \quad \quad \quad \begin{array}{r} 0.5 \\ 0.7 \end{array} \\ & = 2\frac{3}{4} + \frac{1}{2} \times \frac{5}{7} = \underline{\underline{3}} \end{aligned}$$

$$(5) \left\{ \left( \frac{1}{2} + \frac{1}{4} + \frac{1}{8} \right) \div \left( \frac{1}{3} + \frac{1}{6} + \frac{1}{12} \right) \right\} \times \square = 9$$

$$\frac{4+2+1}{8} \div \frac{4+2+1}{12} \times \square = 9$$

$$\frac{1}{2} \times \frac{3}{1} \times \square = 9$$

$$\square = 9 \times \frac{2}{3} = \underline{\underline{6}}$$

$$2 \text{ (1)} 31.4 \div 0.8$$

$$\begin{array}{r} 39. \\ 0.8 \overline{) 31.4} \\ \underline{24.} \phantom{0} \\ 7.4 \\ \underline{7.2} \phantom{0} \\ 0.2 \end{array}$$

A. 0.2

# 2008 实践女子学园中学

$$1. ① \quad 66 \times (54 - 26 \div 2) \div 123 - (93 - 29) \div 8$$

$$= \frac{66 \times 41}{123} - \frac{64}{8} = 22 - 8 = \underline{\underline{14}}$$

$$② \quad \frac{5}{6} - 2\frac{3}{8} \div (12.5 - 2\frac{2}{3} \times 3.5)$$

$$= \frac{5}{6} - \frac{19}{8} \div (\frac{25}{2} - \frac{8}{3} \times \frac{7}{2}) = \frac{5}{6} - \frac{19}{8} \times \frac{6}{75-56} = \frac{10}{12} - \frac{9}{12} = \underline{\underline{\frac{1}{12}}}$$

$$③ \quad 2\frac{2}{7} \div \boxed{\frac{\square}{21}} - (36 - 295 \div 3\frac{11}{14}) \times \frac{3}{7} = 0.3$$

$$\frac{16}{7} \div \boxed{\square} - (\frac{18}{5} - \frac{58}{20} \times \frac{44}{58}) \times \frac{3}{7} = \frac{3}{10}$$

$$\frac{16}{7} \div \boxed{\square} = \frac{3}{10} + \frac{14}{5} \times \frac{3}{7} = \frac{75}{70} \quad \boxed{\square} = \frac{16}{7} \div \frac{3}{2} = \frac{32}{21} = 1\frac{11}{21} \quad \boxed{\square} = \underline{\underline{11}}$$

$$④ \quad (13 - 9 \div 3) \times 4 - 40 \div \square + 18 - \square \div \square \times 10 = 40$$

$$\begin{aligned} ③ &= 40 + 10 = 50 \\ ② &= 50 - 18 = 32 \\ ① &= 40 - 32 = 8 \\ \square &= 40 \div 8 = \underline{\underline{5}} \end{aligned}$$

$$⑤ \quad 4\text{km} \times 132\text{m} - 30.23\text{ka} + 39300\text{m}^2 = \boxed{\square}\text{a}$$

$$= 4000\text{m} \times 132\text{m} - 3023\text{a} + 393\text{a}$$

$$= 528000\text{m}^2$$

$$= 5280\text{a} - 3023\text{a} + 393\text{a}$$

$$= \underline{\underline{2650\text{a}}}$$

2008 品川女子学院 中等部

$$1^{(1)} (0.3 - \frac{1}{4}) \div 0.2 + 1\frac{3}{4}$$

$$= (\frac{3}{10} - \frac{5}{20}) \times 5 + 1\frac{3}{4} = \frac{1}{20} \times 5 + 1\frac{3}{4} = \underline{\underline{2}}$$

$$(2) 6 - 3 \times (\square - 2.1) \div \frac{1}{2} = 4\frac{3}{5}$$

$$\textcircled{3} = 6 - 4\frac{3}{5} = 1\frac{2}{5} \quad \textcircled{2} = \frac{7}{5} \times \frac{1}{2} = \frac{7}{10} \quad \textcircled{1} = \frac{7}{10} \div 3 = \frac{7}{30}$$

$$\square = 2.1 + \frac{7}{30} = 2\frac{3}{10} + \frac{7}{30} = 2\frac{10}{30} = \underline{\underline{2\frac{1}{3}}}$$

2008 十文字中学

$$1^{(1)} 4 \times 3 - 12 \div (12 - 3 \times 2)$$

$$= 12 - 12 \div (12 - 6)$$

$$= 12 - 12 \div 6 = 12 - 2 = \underline{\underline{10}}$$

$$(2) 2.3 \times \frac{5}{6} - (3\frac{5}{6} - 1\frac{5}{8}) \div 5.3$$

$$= \frac{23}{10} \times \frac{5}{6} - (2\frac{44}{24} - 1\frac{15}{24}) \times \frac{10}{53}$$

$$= \frac{23}{12} - 1\frac{29}{24} \times \frac{10}{53} = \frac{23}{12} - \frac{53}{24} \times \frac{10}{53} = \frac{23}{12} - \frac{10}{24} = \frac{13}{6} = \underline{\underline{2\frac{1}{2}}}$$

$$(3) \frac{3}{5} \times (28 + \square \div 4) = 24$$

$$\textcircled{2} = 24 \div \frac{3}{5} = 40$$

$$\textcircled{1} = 40 - 28 = 12$$

$$\square = 4 \times 12 = \underline{\underline{48}}$$

2008 淑徳与野中学

$$1^{(1)} \quad 1\frac{2}{3} \times 0.8 + (\frac{5}{6} - \frac{3}{4}) \div 0.125$$

$$= \frac{5}{3} \times \frac{4}{5} + (\frac{10}{12} - \frac{9}{12}) \div \frac{1}{8} = \frac{4}{3} + \frac{1}{12} \times 8 = \frac{4}{3} + \frac{2}{3} = \underline{\underline{2}}$$

$$(2) \quad 2.4 \text{時間} - 10\frac{7}{12} \text{分} + 3635 \text{秒} \text{は何分?}$$

$$60 \times 2.4 - 10\frac{7}{12} \text{分} + \frac{3635}{60} \text{分}$$

$$= 144 \text{分} - 10\frac{7}{12} \text{分} + 60\frac{7}{12} \text{分} = \underline{\underline{194 \text{分}}}$$

$$\begin{array}{r} 727 \\ 3635 \\ \hline 60 \\ 12 \end{array}$$

$$\begin{array}{r} 60 \\ 12 \overline{) 727} \\ 72 \\ \hline 7 \end{array}$$

2008 頌栄女子学院中学

$$1^{(1)} \quad ① \quad 9 \times 8 \times 7 \times 6 \times 5 \times 4 - 7 \times 6 \times 5 \times 4 \times 3 \times 2$$

$$= \underbrace{7 \times 6 \times 5 \times 4}_{840} \times (\underbrace{9 \times 8}_{72} - \underbrace{3 \times 2}_6) = \underline{\underline{55440}}$$

$$② \quad 0.84 \div 4\frac{2}{3} + (1.125 - \frac{5}{8}) \times 0.16$$

$$= \frac{364}{100} \times \frac{3}{14} + \frac{4}{8} \times \frac{1}{25} = \frac{9}{50} + \frac{4}{50} = \underline{\underline{\frac{13}{50}}}$$

$$③ \quad 1.15 \div 0.05 - 31.9 \times 0.3 - 1.17 \div 0.15$$

$$= 23 - 9.57 - 7.8 = \underline{\underline{5.63}}$$

$$④ \quad \left[ \square - \left\{ 21 \div \underbrace{(9-3 \times 2)}_{6} \right\} \times 15 \div \underbrace{(5-2)}_3 \right] \div 3 - 5 = 30$$

$$\left[ \quad \right] = (30 + 5) \times 3 = 105$$

$$\square = 105 + 35 = \underline{\underline{140}}$$