

2008 横浜雙葉中学校

1. (1) 次の  にあてはまる数を求めなさい。

①  $99.999 + 88.888 + 9.999 + 21.114 = \text{$

②  $1\frac{5}{6} + \left\{ 5\frac{2}{3} \div (2.75 - \text{}) \right\} = 4\frac{1}{2}$

(2) 次の割り算をして、商を小数第1位まで求め、あまりも出しなさい。

$540.1 \div 7.65$

2008 立教女学院中学校

1. (1)  $1 \div 0.0005 + 16.659 \div 0.617 - 4.75 \div \frac{1}{8} \div 2 = \text{$

(2)  $16 - 32 + 48 - 64 + \text{} - 96 + 112 - 128 + 144 - 160 + 176 = 80$

2008 和洋九段女子中学校(第2回)

1. (1)  $10 \times 9 + 8 - 7 \times 6 + 5 - 4 \times 3 \div 2 + 1 = \text{$

(2)  $\frac{2}{5} \div \left( \frac{2}{3} + \frac{7}{10} \right) \times \frac{1}{4} = \text{$

(3)  $24 \times \left\{ \left( 3 + 1\frac{1}{4} \right) - (3.25 - 1.5) \div \frac{1}{2} \right\} = \text{$

(4)  $31 - 36 \div (21 - \text{} \times 9) = 19$

(5)  $\left( 1\frac{17}{25} + 3.75 \right) \text{kg} = \text{ g}$

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1. (1)  $48 + 12 \div 6 - 7 \times 2$

(2)  $66 - 6 \times (20 \div 5 + 5) \div 6$

(3)  $\left\{ \left( 2\frac{3}{7} + 3\frac{5}{14} \right) \div 4\frac{1}{8} - \frac{3}{11} \right\} \times 2\frac{1}{3}$

2. (1)  $7 + 1\frac{6}{19} \times (\text{} - 1.25) = 8.25$

2008 灘中学校

1.  $\left( 2008 \times \frac{1}{119} + \text{} \right) \times \left( 3 - \frac{5}{13} \right) = 45\frac{33}{91}$

2008 ラ・サール中学校

1. (1)  $1\frac{2}{3} \div 1\frac{9}{16} - \left\{ 1 - \frac{1}{3} \times \left( \frac{2}{3} - \frac{1}{6} \right) \right\} = \text{$

(2)  $12 \times (\text{} - 0.3) - 0.15 = \frac{1}{4}$

(3)  $6 \times 6 \times 3.14 - 32 \times 1.57 + \text{} \times 62.8 = 314$

2008 横浜雙葉中学

1. (1) ①  $99.999 + 88.888 + 9.999 + 21.114 = \underline{\underline{220}}$

$$\begin{array}{r} 99.999 \\ 88.888 \\ 9.999 \\ \hline 198.886 \\ 21.114 \\ \hline 220.000 \end{array}$$

②  $1\frac{5}{6} + \left\{ 5\frac{2}{3} \div (2.75 - \square) \right\} = 4\frac{1}{2}$

②      ①

②  $= 4\frac{1}{2} - 1\frac{5}{6} = 3\frac{9}{6} - 1\frac{5}{6} = 2\frac{4}{6} = \frac{8}{3}$

①  $= 5\frac{2}{3} \div \frac{8}{3} = \frac{17}{3} \times \frac{3}{8} = \frac{17}{8} = 2\frac{1}{8}$

$\square = 2.75 - 2\frac{1}{8} = 2\frac{3}{4} - 2\frac{1}{8} = 2\frac{6}{8} - 2\frac{1}{8} = \underline{\underline{\frac{5}{8}}}$

(2)  $540.1 \div 7.65$  (商1位 余1位)

$$\begin{array}{r} 70.6 \\ 7.65 \overline{) 540.1} \\ \underline{535.5} \phantom{0} \\ 460.0 \\ \underline{459.0} \\ 0.010 \end{array}$$

A. 70.6 余1 0.01

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$$1^{(1)} 1 \div 0.0005 + 16.659 \div 0.617 - 4.75 \div \frac{1}{8} \div 2$$

$$= 1 \times \frac{2000}{1} + \frac{16659}{1000} \times \frac{1000}{617} - \frac{19}{100} \times \frac{8}{1} \times \frac{1}{2}$$

$$= 2000 + 27 - 19 = \underline{2008}$$

$$(2) 16 - 32 + 48 - 64 + \square - 96 + 112 - 128 + 144 - 160 + 176 = 80$$

(反則) 中学生でもないのに(-)の計算かよ〜?

$$\square + 16 + 48 + 112 + 144 + 176 - 32 - 64 - 96 - 128 - 160 = 80$$

$$\square = 80 + 32 + 64 + 96 + 128 + 160 - 16 - 48 - 112 - 144 - 176 = \underline{64}$$

$\begin{array}{r} 176 \\ 272 \\ 400 \\ 528 \\ 656 \\ 784 \\ 912 \\ 1040 \end{array}$

2008 和洋九段女子中学 (第2回)

$$1^{(1)} 10 \times 9 + 8 - 7 \times 6 + 5 - 4 \times 3 \div 2 + 1 = \underline{56}$$

$$(2) \frac{2}{5} \div \left( \frac{2}{3} + \frac{7}{10} \right) \times \frac{1}{4} = \frac{2}{5} \times \frac{30}{41} \times \frac{1}{4} = \underline{\frac{3}{41}}$$

$$(3) 24 \times \left\{ \left( 3 + 1\frac{1}{4} \right) - \left( 3.25 - 1.5 \right) \div \frac{1}{2} \right\} = 24 \times \left( \frac{17}{4} - \frac{7}{4} \times 2 \right) = 24 \times \frac{3}{4} = \underline{18}$$

$$(4) 31 - 36 \div (21 - \square \times 9) = 19 \quad 36 \div ( ) = 31 - 19 = 12$$

$$( ) = 36 \div 12 = 3$$

$$\square \times 9 = 21 - 3 = 18 \quad \square = 18 \div 9 = \underline{2}$$

$$(5) \left( 1\frac{17}{25} + 3.75 \right) \text{kg} = (1.68 + 3.75) \text{kg} = 5.43 \text{kg} = \underline{5430\text{g}}$$

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$$1 \quad (1) \quad 48 + \underbrace{12 \div 6}_2 - \underbrace{7 \times 2}_{14} = \underline{\underline{36}}$$

$$(2) \quad \left\{ 66 - 6 \times \underbrace{\underbrace{20 \div 5}_4 + 5}_9 \right\} \div 6 = 12 \div 6 = \underline{\underline{2}}$$

$$\begin{aligned} (3) \quad & \left\{ \left( 2\frac{3}{7} + 3\frac{5}{14} \right) \div 4\frac{1}{8} - \frac{3}{11} \right\} \times 2\frac{1}{3} \\ &= \left( 5\frac{11}{14} \div 4\frac{1}{8} - \frac{3}{11} \right) \times \frac{7}{3} \\ &= \left( \frac{27}{7} \times \frac{8}{33} - \frac{21}{77} \right) \times \frac{7}{3} = \frac{24}{77} \times \frac{8}{1} = 2\frac{7}{11} \end{aligned}$$

$$2 \quad (1) \quad 7 + 1\frac{6}{19} \times (\square - 1.25) = 8.25$$

$$\textcircled{2} = 8.25 - 7 = 1.25 = \frac{5}{4} \quad \textcircled{1} = \frac{5}{4} \div 1\frac{6}{19} = \frac{5}{4} \times \frac{19}{25} = \frac{19}{20}$$

$$\square = 1.25 + \frac{19}{20} = 1\frac{1}{4} + \frac{19}{20} = 1\frac{5}{20} + \frac{19}{20} = 2\frac{4}{20} = \underline{\underline{2\frac{1}{5}}}$$

2008 漢維中学

$$1. \quad \left( 2008 \times \frac{1}{119} + \square \right) \times \left( 3 - \frac{5}{13} \right) = 45\frac{33}{91}$$

$$\left( \quad \right) = \frac{4128}{91} \div \frac{34}{13} = \frac{2064}{91} \times \frac{13}{34} = \frac{2064}{119}$$

$$\square = \frac{2064}{119} - \frac{2008}{119} = \frac{56}{119} = \underline{\underline{\frac{8}{17}}}$$

$$\begin{array}{r} 45 \quad 4095 \\ 91 \quad 33 \\ \hline 45 \quad 4128 \\ 405 \quad \\ \hline 4095 \end{array}$$

2008 五・サ-ル 中学.

$$\begin{aligned} 1^{(1)} \quad & \frac{1}{3} \div \frac{1}{16} - \left\{ 1 - \frac{1}{3} \times \left( \frac{2}{3} - \frac{1}{6} \right) \right\} \\ & = \frac{1}{3} \times \frac{16}{1} - \left( 1 - \frac{1}{3} \times \frac{1}{2} \right) = \frac{16}{3} - \frac{5}{6} = \frac{32}{6} - \frac{5}{6} = \frac{27}{6} = \underline{\underline{\frac{9}{2}}} \end{aligned}$$

$$(2) \quad 12 \times (\square - 0.3) - 0.15 = \frac{1}{4}$$

②      ①

$$\textcircled{2} = \frac{1}{4} + 0.15 = \frac{5}{20} + \frac{3}{20} = \frac{8}{20} = \frac{2}{5}$$

$$\textcircled{1} = \frac{2}{5} \div 12 = \frac{1}{30} \quad \square = \frac{1}{30} + \frac{3}{10} = \frac{10}{30} = \underline{\underline{\frac{1}{3}}}$$

$$(3) \quad 6 \times 6 \times 3.14 - 32 \times 1.57 + \square \times 62.8 = 314$$

$$36 \times 3.14 - \overset{16}{32} \times 3.14 \times \frac{1}{2} + \square \times 3.14 \times 20 = 3.14 \times 100$$

$$3.14 \times (\underbrace{36 - 16}_{20} + \square \times 20) = 3.14 \times 100$$

$$\square \times 20 = 100 - 20 = 80 \quad \square = 80 \div 20 = \underline{\underline{4}}$$