

2008 武蔵工業大学附属中学校

1. (1) $38 \times 16 + 12 \times 16 + 7 \times 50 - 3 \times 50 = \square$
(2) $\left\{ 3\frac{3}{4} - \left(\square - \frac{1}{6} \right) \right\} \div \frac{2}{3} = 5$

2008 明治大学附属中野中学校

1. (1) $3 \times 1\frac{1}{3} + 2\frac{2}{3} - 0.2 \div \left(\frac{2}{3} - 0.6 \right) = \square$
(2) $\frac{13}{20} - \left\{ 1\frac{1}{8} - \left(3\frac{1}{8} + 3 \right) \times 0.1 \right\} - 0.25 \times \frac{3}{10} = \square$
(3) $0.75 \times \frac{8}{15} \div 1.65 - \square \div \frac{3}{2} \times 0.125 = \frac{7}{33}$

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1. (1) $\left(11\frac{1}{5} + 39 \right) \div 0.025 = \square$
(2) $\{ 7 + 3 \times (19 - 3) \div 4 \} \times 5 = \square$
(3) 3時間27分31秒 = \square 秒
(4) $3.14 \times 3.37 + 3.14 \times 9.12 + 7.51 \times 3.14 = \square$
(5) $2\frac{2}{5} \div 5\frac{7}{25} - \frac{8}{33} \times \frac{3}{4} = \square$
(6) $\left(2\frac{1}{8} - 0.75 \right) \times \frac{2}{3} \div \left(0.375 + \frac{1}{12} \right) = \square$

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1. 1) $\left(3\frac{1}{6} + 1\frac{3}{4} \times 2 \right) \div 4\frac{4}{9} + \frac{1}{2}$
2) $\left\{ 0.75 \times \frac{1}{3} - \left(\frac{2}{3} - \frac{1}{2} \right) \right\} \div \left(1.25 - \frac{5}{6} \right)$

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1. 2) $2\frac{5}{6} \div \left(2.625 - 0.5 \times 2\frac{1}{3} + \frac{2}{3} \right)$

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1. (1) $\left\{ 4 + \left(8 + \frac{2}{5} \right) \div 2 \right\} \div (1.25 - 1.5 \times 0.15) \times 0.375$ を計算しなさい。

2008 跡見学園中学校

1. (1) $0.125 + \frac{1}{3} \times \left(1\frac{3}{5} - 25.2 \div 7 \div 3 \right) = \square$
(2) $\left(\frac{5}{9} + \square \right) : 8 = 2 : 9$
(3) $57 \times 0.375 - 38 \times 0.25 - 19 \times 0.5 = \square$
(4) $\frac{1}{8} - \frac{1}{2} \times \left(\frac{1}{2} - \frac{1}{3} \right) - \frac{1}{27} = \square$

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$$1. (1) \quad 38 \times 16 + 12 \times 16 + 7 \times 50 - 3 \times 50 \\ = 16 \times (38 + 12) + 50 \times (7 - 3) \\ = 16 \times 50 + 50 \times 4 = 50 \times (16 + 4) = 50 \times 20 = \underline{1000}$$

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

①

$$\textcircled{2} = 5 \times \frac{2}{3} = \frac{10}{3} \quad \textcircled{1} = 3\frac{3}{4} - \frac{10}{3} = 3\frac{9}{12} - 3\frac{4}{12} = \frac{5}{12}$$

$$\square = \frac{5}{12} + \frac{1}{6} = \frac{5}{12} + \frac{2}{12} = \underline{\underline{\frac{7}{12}}}$$

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$$1. (1) \quad 3 \times 1\frac{1}{3} + 2\frac{2}{3} - 0.2 \div \left(\frac{2}{3} - 0.6 \right) \\ = 3 \times \frac{4}{3} + 2\frac{2}{3} - \frac{1}{5} \div \frac{1}{15} = 4 + 2\frac{2}{3} - 3 = \underline{\underline{3\frac{2}{3}}}$$

$$(2) \quad \frac{13}{20} - \left\{ 1\frac{1}{8} - \left(3\frac{1}{8} + 3 \right) \times 0.1 \right\} - 0.25 \times \frac{3}{10} \\ = \frac{13}{20} - \left\{ 1\frac{1}{8} - \frac{49}{8} \times \frac{1}{10} \right\} - \frac{1}{4} \times \frac{3}{10} \\ = \frac{52}{80} - \left(\frac{90}{80} - \frac{49}{80} \right) - \frac{6}{80} = \frac{52 - 90 + 49 - 6}{80} = \frac{5}{80} = \underline{\underline{\frac{1}{16}}}$$

$$(2) \quad 0.75 \times \frac{8}{15} \div 1.65 - \square \div \frac{3}{2} \times 0.125 = \frac{7}{33}$$

$$\frac{12}{15} \times \frac{8}{15} \times \frac{20}{33} - \square \times \frac{2}{3} \times \frac{1}{8} = \frac{7}{33}$$

$$\frac{8}{33} - \square \times \frac{1}{12} = \frac{7}{33}$$

①

$$\textcircled{1} = \frac{8}{33} - \frac{7}{33} = \frac{1}{33}$$

$$\square = \frac{1}{33} \div \frac{1}{12} = \frac{12}{33} = \underline{\underline{\frac{4}{11}}}$$

$$1.65 = \frac{165}{100} = \frac{33}{20}$$

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$$1. (1) (11\frac{1}{5} + 39) \div 0.025 = 50\frac{1}{5} \div \frac{1}{40} = \frac{251}{5} \times \frac{40}{1} = \underline{2008}$$

$$(2) \{7 + 3 \times (19 - 3) \div 4\} \times 5 = (7 + \frac{3 \times 16}{4}) \times 5 = 19 \times 5 = \underline{95}$$

$$(3) \text{3時間} 27\text{分} 31\text{秒}$$

$$= 3600\text{秒} \times 3 + 60\text{秒} \times 27 + 31$$

$$= \underline{12451\text{秒}}$$

$$(4) \underline{3.14} \times 3.37 + \underline{3.14} \times 9.12 + \underline{7.51} \times \underline{3.14}$$

$$= 3.14 \times (3.37 + 9.12 + 7.51)$$

$$= 3.14 \times 20 = \underline{62.8}$$

$$(5) 2\frac{2}{5} \div 5\frac{7}{25} - \frac{28}{33} \times \frac{3}{4}$$
$$= \frac{12}{5} \times \frac{25}{132} - \frac{2}{11} = \underline{\underline{\frac{3}{11}}}$$

$$(6) (2\frac{1}{8} - 0.75) \times \frac{2}{3} \div (0.375 + \frac{1}{12})$$

$$= (\frac{17}{8} - \frac{6}{8}) \times \frac{2}{3} \div (\frac{3}{8} + \frac{1}{12})$$

$$= \frac{11}{8} \times \frac{2}{3} \times \frac{24}{11}$$

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

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$$\begin{aligned} 1. (1) & (3\frac{1}{6} + 1\frac{3}{4} \times 2) \div 4\frac{4}{9} + \frac{1}{2} \\ & = (\frac{19}{6} + \frac{7}{2} \times 2) \times \frac{9}{40} + \frac{1}{2} \\ & = \frac{140}{8} \times \frac{9}{40} + \frac{1}{2} = \underline{\underline{2}} \end{aligned}$$

$$\begin{aligned} (2) & \{0.75 \times \frac{1}{3} - (\frac{2}{3} - \frac{1}{2})\} \div (1.25 - \frac{5}{6}) \\ & = (\frac{3}{4} \times \frac{1}{3} - \frac{1}{6}) \div (\frac{5}{4} - \frac{5}{6}) \\ & = (\frac{6}{24} - \frac{4}{24}) \div (\frac{15}{12} - \frac{10}{12}) \\ & = \frac{1}{12} \times \frac{12}{5} = \underline{\underline{\frac{1}{5}}} \end{aligned}$$

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$$\begin{aligned} 1. (1) & 2\frac{5}{6} \div (2.625 - 0.5 \times 2\frac{1}{3} + \frac{2}{3}) \\ & = \frac{17}{6} \div (2\frac{5}{8} - \frac{1}{2} \times \frac{7}{3} + \frac{2}{3}) \\ & = \frac{17}{6} \div (\frac{63}{24} - \frac{28}{24} + \frac{16}{24}) \\ & = \frac{17}{6} \times \frac{24}{11} = \underline{\underline{\frac{17}{3}}} \end{aligned}$$

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$$\begin{aligned} 1. (1) & \{4 + (8 + \frac{2}{5}) \div 2\} \div (1.25 - 1.5 \times 0.15) \times 0.375 \\ & = (4 + \frac{42}{5} \times \frac{1}{2}) \div (\frac{5}{4} - \frac{3}{2} \times \frac{3}{20}) \times \frac{3}{8} \\ & = \frac{44}{5} \times \frac{5}{4} \times \frac{3}{8} \\ & = \underline{\underline{3}} \end{aligned}$$

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$$25.2 = 25\frac{1}{5} = \frac{126}{5}$$

$$1^{(1)} 0.125 + \frac{1}{3} \times \left(1\frac{3}{5} - 25.2 \div 7 \div 3\right)$$

$$= \frac{1}{8} + \frac{1}{3} \times \left(1\frac{3}{5} - \frac{126}{5} \times \frac{1}{7} \times \frac{1}{3}\right)$$

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

$$= \frac{15}{120} + \frac{16}{120} = \underline{\underline{\frac{31}{120}}}$$

$$(2) \left(\frac{5}{9} + \square\right) : 8 = 2 : 9$$

$$\left(\quad\right) = \frac{8 \times 2}{9} = \frac{16}{9} \quad \square = \frac{16}{9} - \frac{5}{9} = \frac{11}{9} = \underline{\underline{1\frac{2}{9}}}$$

$$(3) 57 \times 0.375 - 38 \times 0.25 - 19 \times 0.5$$

$$= 57 \times \frac{3}{8} - 38 \times \frac{1}{4} - 19 \times \frac{1}{2}$$

$$= \frac{171}{8} - \frac{76}{8} - \frac{76}{8} = \frac{19}{8} = \underline{\underline{2\frac{3}{8}}}$$

$$(4) \frac{1}{8} - \frac{1}{2} \times \left(\frac{1}{2} - \frac{1}{3}\right) - \frac{1}{27}$$

$$= \frac{1}{8} - \frac{1}{2} \times \frac{1}{6} - \frac{1}{27}$$

$$= \frac{1}{8} - \frac{1}{12} - \frac{1}{27}$$

$$= \frac{27}{216} - \frac{18}{216} - \frac{8}{216}$$

$$= \underline{\underline{\frac{1}{216}}}$$