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- / (1) $4 \times (31 - \text{①} \times 3) - 3 \times 5 = 1$
 (2) $3.5 \times 1.2 + 1.6 \times 0.5 = \text{②}$
 (3) $2\frac{1}{6} \div \left(\frac{2}{7} + \frac{1}{3}\right) - \frac{2}{3} = \text{③}$

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- / (1) $0.06 \times 0.63 \div 0.042 = \text{ }$
 (2) $22 - (10 + \text{ } \times 3) \div 5 = 17$

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- / (1) $213 - 57 + 144 = \text{ }$
 (2) $18 - 12 \div 2 \times 3 = \text{ }$
 (3) $\frac{2}{5} \times \frac{15}{4} \div \frac{6}{7} = \text{ }$
 (4) $2\frac{1}{3} \times \frac{11}{7} - 1.8 = \text{ }$
 (5) $\frac{7}{3} + \frac{5}{2} \div \frac{3}{5} - 2 = \text{ }$

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- / (1) $(78 + 104) \div 13 - 12 \div 10 \times 5 = \text{ }$
 (2) $0.75 - \left\{ 3\frac{2}{5} - \left(\text{ } - \frac{3}{8} \right) \right\} \div 5.4 = \frac{7}{12}$
 (3) $a * b$ は, $a \times b - (a + b)$ という計算の結果を表すものとします。
 このとき,
 $(4 * 7) * 5 = \text{⑤}$
 $8 * \text{④} = 13$
 です。

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- / (1) $7 \times (12 - 8) - (9 - 3) \div 2$
 (2) $15 \times 2.6 + 2 \times (4.2 - 1.6) - 7 \times (7.8 \div 3)$
 (3) $3.5 \div \frac{6}{5} - \left\{ 12 \times \left(\frac{1}{3} - 0.3 \right) - 0.15 \right\}$
 (4) $1992 \times 11 - 2008 \times 9$

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- / (1) $174 \times 138 = \text{ }$
 (2) $200 - \{ 120 \div 8 + (12 - 7) \} = \text{ }$
 (3) $3.8 \div 1\frac{2}{3} - 0.4 \times 1\frac{1}{5} = \text{ }$
 (4) $10\frac{2}{5} \times \text{ } + \frac{1}{3} = 2\frac{14}{15}$

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$$1. (1) 4 \times (31 - \square \times 3) - 3 \times 5 = 1$$

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 ③ ② ① 15

$$\textcircled{3} = 1 + 15 = 16 \quad \textcircled{2} = 16 \div 4 = 4 \quad \textcircled{1} = 31 - 4 = 27$$

$$\square = 27 \div 3 = \underline{\underline{9}}$$

$$(2) 3.5 \times 1.2 + 1.6 \times 0.5 = 4.2 + 0.8 = \underline{\underline{5}}$$

$$\begin{array}{r} \times 1.2 \\ 35 \\ \hline 420 \end{array} \quad \begin{array}{r} \times 0.5 \\ 16 \\ \hline 0.80 \end{array}$$

$$(3) 2\frac{1}{6} \div \left(\frac{2}{7} + \frac{1}{3}\right) - \frac{2}{3} = \frac{13}{6} \div \left(\frac{6}{21} + \frac{7}{21}\right) - \frac{2}{3} = \frac{13}{6} \times \frac{21}{13} - \frac{2}{3} = \frac{21}{6} - \frac{4}{6} = \frac{17}{6} = 2\frac{5}{6}$$

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$$1. (1) 0.06 \times 0.63 \div 0.042$$

$$= \frac{6}{100} \times \frac{63}{100} \times \frac{1000}{42} = \frac{9}{10} \quad (0.9)$$

$$(2) 22 - (10 + \square \times 3) \div 5 = 17$$

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 ③ ② ① 3

$$\textcircled{3} = 22 - 17 = 5$$

$$\textcircled{2} = 5 \times 5 = 25$$

$$\textcircled{1} = 25 - 10 = 15$$

$$\square = 15 \div 3 = \underline{\underline{5}}$$

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$$1. (1) \quad \underbrace{213 - 57}_{156} + 144 = \underline{\underline{300}}$$

$$(2) \quad 18 - 12 \div 2 \times 3 = 18 - \frac{12 \times 3}{2} = 18 - 18 = \underline{\underline{0}}$$

$$(3) \quad \frac{2}{5} \times \frac{15}{4} \div \frac{6}{7} = \frac{2}{5} \times \frac{15}{4} \times \frac{7}{6} = \frac{7}{4} = \underline{\underline{1\frac{3}{4}}}$$

$$(4) \quad 2\frac{1}{3} \times \frac{11}{7} - 1.8 = \frac{7}{3} \times \frac{11}{7} - \frac{9}{5} = \frac{55}{15} - \frac{27}{15} = \frac{28}{15} = \underline{\underline{1\frac{13}{15}}}$$

$$(5) \quad \frac{7}{3} + \frac{5}{2} \div \frac{3}{5} - 2 = \frac{7}{3} + \frac{5}{2} \times \frac{5}{3} - 2 = \frac{14}{6} + \frac{25}{6} - \frac{12}{6} = \frac{27}{6} = \underline{\underline{4\frac{1}{2}}}$$

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$$1. (1) \quad (78 + 104) \div 13 - 12 \div 10 \times 5 \\ = \frac{182}{13} - \frac{12 \times 5}{10} = 14 - 6 = \underline{\underline{8}}$$

$$(2) \quad 0.75 - \left\{ 3\frac{2}{5} - \left(\square - \frac{3}{8} \right) \right\} \div 5.4 = \frac{7}{12}$$

$\left(\frac{3}{4} \right)$ ③ ① ②

$$\textcircled{3} = \frac{3}{4} - \frac{7}{12} = \frac{2}{12} = \frac{1}{6} \quad \textcircled{2} = \frac{1}{5.4} \times \frac{9}{10} = 0.9 \left(\frac{9}{10} \right)$$

$$\textcircled{1} = 3\frac{2}{5} - \frac{9}{10} = 2\frac{14}{10} - \frac{9}{10} = 2\frac{5}{10} = 2\frac{1}{2} \quad \square = 2\frac{1}{2} + \frac{3}{8} = \underline{\underline{2\frac{7}{8}}}$$

$$(3) \quad (4 * 7) * 5 = \left\{ \underbrace{4 \times 7}_{28} - \underbrace{(4 + 7)}_{11} \right\} * 5 = 17 * 5 = \underbrace{17 \times 5}_{85} - \underbrace{(17 + 5)}_{22} = \underline{\underline{63}} \quad \textcircled{4}$$

$$8 * \square = 13 \quad 8 \times \square - (8 + \square) = 13 \quad 8 \times \square - 8 - \square = 13$$

$$7 \times \square - 8 = 13 \quad 7 \times \square = 13 + 8 = 21 \quad \square = 21 \div 7 = \underline{\underline{3}} \quad \textcircled{5}$$

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$$1^{(1)} 7 \times \underbrace{(12-8)}_4 - \underbrace{(9-3)}_6 \div 2 = 28 - 3 = \underline{\underline{25}}$$

$$\begin{aligned} (2) 15 \times 2.6 + 2 \times \underbrace{(4.2-1.1)}_{2.6} - 7 \times \underbrace{(2.8 \div 3)}_{2.6} \\ = 2.6 \times (15 + 2 - 7) = 2.6 \times 10 = \underline{\underline{26}} \end{aligned}$$

$$\begin{aligned} (3) 3.5 \div \frac{6}{5} - \left\{ 12 \times \left(\frac{1}{3} - 0.3 \right) - 0.15 \right\} \\ = \frac{7}{2} \times \frac{5}{6} - \left\{ 12 \times \left(\frac{10}{30} - \frac{9}{30} \right) - \frac{15}{100} \right\} \\ = \frac{35}{12} - \left(\cancel{12}^2 \times \frac{1}{\cancel{30}_5} - \frac{3}{20} \right) = \frac{35}{12} - \left(\frac{8}{20} - \frac{3}{20} \right) = \frac{35}{12} - \frac{\cancel{4}^1}{\cancel{20}_4} = \frac{35}{12} - \frac{3}{12} = \frac{\cancel{32}^8}{12} = \underline{\underline{2\frac{2}{3}}} \end{aligned}$$

$$\begin{array}{r} (4) 1992 \times 11 - 2008 \times 9 = 3840 \\ \begin{array}{r} 1992 \\ \times 11 \\ \hline 21912 \end{array} \quad \begin{array}{r} 9 \\ \times 2008 \\ \hline 18072 \end{array} \quad \begin{array}{r} 21912 \\ - 18072 \\ \hline 3840 \end{array} \end{array}$$

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$$1^{(1)} 174 \times 138 = \underline{\underline{24012}}$$

$$\begin{array}{r} 174 \\ \times 138 \\ \hline 1392 \\ 522 \\ \hline 24012 \end{array}$$

$$(2) 200 - \left\{ \underbrace{120 \div 8}_{15} + \underbrace{(12-7)}_5 \right\} = \underline{\underline{180}}$$

$$(3) 3.8 \div 1\frac{2}{3} - 0.4 \times 1\frac{1}{3} = \frac{38}{10} \times \frac{3}{5} - \frac{4}{10} \times \frac{4}{3} = \frac{57}{25} - \frac{12}{25} = \frac{45}{25} = \underline{\underline{1\frac{4}{5}}} (1.8)$$

$$(4) 10\frac{2}{5} \times \square + \frac{1}{3} = 2\frac{14}{15}$$

$$\textcircled{1} = 2\frac{14}{15} - \frac{1}{3} = 2\frac{14}{15} - \frac{5}{15} = 2\frac{9}{15} = \frac{13}{5}$$

$$\square = \frac{13}{5} \div 10\frac{2}{5} = \frac{13}{5} \times \frac{5}{52} = \underline{\underline{\frac{1}{4}}}$$