

## 中学入試用計算問題集(第1回)

試験時間 7分

( )月( )日( )曜日

$$\boxed{1} \quad \{ 1 - \times (\frac{1}{4} \div 9) \} \div (\frac{2}{3} - \frac{5}{8}) = 2 \quad 2 \quad = ( \quad )$$

$$\boxed{2} \quad 2 \frac{5}{14} \div \{ 2 \frac{1}{4} \times (2 \frac{3}{7} - 1 \frac{2}{9}) - 1 \frac{2}{3} \frac{7}{5} \} = ( \quad )$$

$$\boxed{3} \quad [ 28 - \{ 14 + 75 \div 25 - (7 \times 2 - 4) \} \div 7 ] \div 9 = ( \quad )$$

## 中学入試用計算問題集(第2回)

試験時間 7分

( )月( )日( )曜日

①  $\frac{5}{6} - 0.25 \times \frac{2}{3} \div \frac{5}{12} = ( \quad )$

②  $20000 \times 15000 \div 1000 \times 0.003 = ( \quad )$

③  $(0.25 + \frac{1}{3}) \times \frac{6}{7} + (1\frac{5}{6} - 0.5) \div 1\frac{1}{3} = ( \quad )$

## 中学入試用計算問題集(第3回)

試験時間 7分

( )月( )日( )曜日

①  $(2\frac{2}{3} \times 5\frac{3}{4} - 1\frac{5}{6} \times 7\frac{6}{11}) \times 2\frac{2}{3} = ( \quad )$

②  $2\frac{1}{3} \times 0.25 + \frac{2}{7} \div (1.4 - \frac{5}{7}) = ( \quad )$

③  $(\frac{1}{3} + \frac{1}{15} + \frac{1}{35}) \times 7 = ( \quad )$

## 中学入試用計算問題集(第4回)

試験時間 7分

( )月( )日( )曜日

① 1日 - 3時42分50秒  $\times$  4 = ( )時( )分( )秒

②  $(17 \times 13 - 11) \div (6 \times 48 \div 16 - 6 \div 2) \times 7 = ( )$

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

## 中学入試用計算問題集(第5回)

試験時間 7分

( )月( )日( )曜日

①  $9\frac{7}{12} - (4 \div \frac{8}{3} + 7.8) \times \frac{1}{3} = ( \quad )$

②  $(3\frac{5}{6} - \quad + 1\frac{7}{15}) \div 1\frac{4}{15} = 1.5 = ( \quad )$

③  $\{(21 + 3) \times \frac{2}{3} - 1\frac{3}{5}\} \div 9 = ( \quad )$

## 中学入試用計算問題集(第6回)

試験時間 7分

( )月( )日( )曜日

①  $(2\frac{1}{2} \times \frac{11}{15} - 0.25 \times \frac{1}{4}) \times 1.8 = ( \quad )$

②  $\{2\frac{1}{7} \times (1\frac{1}{3} - \frac{3}{4}) - \frac{1}{4}\} \div \{11 \div (2\frac{1}{8} - \frac{3}{4}) \times \frac{1}{4}\} = ( \quad )$

③  $\{18 - 7 \times 2 \times (4 - 3\frac{6}{7})\} \times 2 - 63 \times 3 \times (15 - 14\frac{8}{9}) = ( \quad )$

## 中学入試用計算問題集(第1回) 解答と解き方

【解答】

① 3                      ②  $2\frac{1}{2}$  (2.5)                      ③ 3

【解き方】

①  $\frac{2}{3} - \frac{8}{8} = \frac{16}{24} - \frac{15}{24} = \frac{1}{24}$

$22 \times \frac{1}{24} = \frac{22 \times 1}{24} = \frac{11}{12}$     これが、{ }の中。

$1 - \boxed{\times \left(\frac{1}{4} \div 9\right)} = \frac{11}{12}$     となるから、 $1 - \frac{11}{12} = \frac{1}{12}$     が、□の中。

$\frac{1}{4} \div 9 = \frac{1}{4 \times 9} = \frac{1}{36}$     だから、 $\times \frac{1}{36} = \frac{1}{12}$     となる。

$= \frac{1}{12} \div \frac{1}{36} = \frac{1 \times 36}{12 \times 1} = 3$

② ()の中...  $2\frac{3}{7} - 1\frac{2}{9} = 2\frac{27}{63} - 1\frac{14}{63} = 1\frac{13}{63} = \frac{76}{63}$

$2\frac{1}{4} \times \frac{76}{63} = \frac{9}{4} \times \frac{76}{63} = \frac{9 \times 76}{4 \times 63} = \frac{19}{7}$

$\frac{19}{7} - 1\frac{27}{35} = \frac{95}{35} - \frac{62}{35} = \frac{33}{35}$     これが、{ }の中。

$2\frac{5}{14} \div \frac{33}{35} = \frac{33}{14} \div \frac{33}{35} = \frac{33 \times 35}{14 \times 33} = \frac{5}{2} = 2\frac{1}{2}$

③  $[28 - \{14 + 7.5 \div 2.5 - (7 \times 2 - 4)\} \div 7] \div 9$

$= [28 - \{14 + 3 - (14 - 4)\} \div 7] \div 9$

$= \{28 - (14 + 3 - 10) \div 7\} \div 9$

$= (28 - 7 \div 7) \div 9$

$= (28 - 1) \div 9$

$= 27 \div 9$

$= 3$

## 中学入試用計算問題集(第2回) 解答と解き方

【解答】

①  $\frac{13}{30}$

② 900

③  $1\frac{1}{2}$

【解き方】

$$\begin{aligned} \text{① } 0.25 \times \frac{2}{3} \div \frac{5}{12} &= \frac{1}{4} \times \frac{2}{3} \div \frac{5}{12} = \frac{1 \times 2 \times \cancel{12}^1}{4 \times 3 \times 5} = \frac{2}{5} \\ \frac{5}{6} - \frac{2}{5} &= \frac{25}{30} - \frac{12}{30} = \frac{13}{30} \end{aligned}$$

$$\begin{aligned} \text{② } 20000 \times 15000 \div 1000 \times 0.003 \\ &= 20000 \times 15000 \div 1000 \times \frac{3}{1000} \\ &= \frac{\cancel{20000}^{20} \times \cancel{15000}^{15}}{\cancel{1000}^1 \times \cancel{1000}^1} \times 3 = 900 \end{aligned}$$

$$\begin{aligned} \text{③ } (0.25 + \frac{1}{3}) \times \frac{6}{7} + (1\frac{5}{6} - 0.5) \div 1\frac{1}{3} \\ \text{ア} \dots 0.25 + \frac{1}{3} &= \frac{1}{4} + \frac{1}{3} = \frac{3}{12} + \frac{4}{12} = \frac{7}{12} \\ \text{イ} \dots \frac{7}{12} \times \frac{6}{7} &= \frac{\cancel{7} \times \cancel{6}^1}{\cancel{12} \times \cancel{7}^1} = \frac{1}{2} \\ \text{ウ} \dots 1\frac{5}{6} - 0.5 &= 1\frac{5}{6} - \frac{1}{2} = 1\frac{5}{6} - \frac{3}{6} = 1\frac{2}{6} = 1\frac{1}{3} \\ \text{エ} \dots 1\frac{1}{3} \div 1\frac{1}{3} &= 1 \\ \frac{1}{2} + 1 &= 1\frac{1}{2} \end{aligned}$$

## 中学入試用計算問題集(第3回) 解答と解き方

【解答】

① 4

② 1

③ 3

【解き方】

$$\text{① } 2\frac{2}{3} \times 5\frac{3}{4} = \frac{8}{3} \times \frac{23}{4} = \frac{\overset{2}{\cancel{8}} \times 23}{3 \times \underset{1}{\cancel{4}}} = \frac{46}{3}$$

$$1\frac{5}{6} \times 7\frac{6}{11} = \frac{11}{6} \times \frac{83}{11} = \frac{\overset{1}{\cancel{11}} \times 83}{6 \times \underset{1}{\cancel{11}}} = \frac{83}{6}$$

$$\frac{46}{3} - \frac{83}{6} = \frac{92}{6} - \frac{83}{6} = \frac{9}{6} = \frac{3}{2}$$

$$\frac{3}{2} \times 2\frac{2}{3} = \frac{3}{2} \times \frac{8}{3} = \frac{\overset{1}{\cancel{3}} \times \overset{4}{\cancel{8}}}{\underset{1}{\cancel{2}} \times \underset{1}{\cancel{3}}} = 4$$

$$\text{② } 2\frac{1}{3} \times 0.25 = 2\frac{1}{3} \times \frac{1}{4} = \frac{7}{3} \times \frac{1}{4} = \frac{7 \times 1}{3 \times 4} = \frac{7}{12}$$

$$1.4 - \frac{5}{7} = 1\frac{4}{10} - \frac{5}{7} = 1\frac{2}{5} - \frac{5}{7} = 1\frac{14}{35} - \frac{25}{35} = \frac{49}{35} - \frac{25}{35} = \frac{24}{35}$$

$$\frac{2}{7} \div \frac{24}{35} = \frac{\overset{1}{\cancel{2}} \times \overset{5}{\cancel{35}}}{\underset{1}{\cancel{7}} \times \underset{12}{\cancel{24}}} = \frac{5}{12}$$

$$\frac{7}{12} + \frac{5}{12} = \frac{12}{12} = 1$$

$$\text{③ } \frac{1}{3} + \frac{1}{15} + \frac{1}{35} = \frac{35}{105} + \frac{7}{105} + \frac{3}{105} = \frac{45}{105} = \frac{3}{7}$$

$$\frac{3}{7} \times 7 = \frac{\overset{1}{\cancel{3}} \times \overset{7}{\cancel{7}}}{\underset{1}{\cancel{7}}} = 3$$

## 中学入試用計算問題集(第4回) 解答と解き方

【解答】

① 9, 8, 40

② 98

③ 2

【解き方】

① 3時42分50秒 × 4

= 12時16分8秒 × 4                      200 ÷ 60 = 3 残り 20 だから,

= 12時17分20秒                      171 ÷ 60 = 2 残り 51 だから,

= 14時51分20秒

1日 - 14時51分20秒

= 24時 - 14時51分20秒

= 23時6分 - 14時51分20秒

= 23時59分60秒 - 14時51分20秒

= 9時8分40秒

②  $(17 \times 13 - 11) \div (6 \times 48 \div 16 - 6 \div 2) \times 7$

=  $(221 - 11) \div (18 - 3) \times 7$

=  $210 \div 15 \times 7$

=  $14 \times 7$

= 98

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

$\frac{11}{6} \div \frac{11}{2} - \frac{1}{2} \times \frac{1}{3} = \frac{11}{6} \div \frac{11}{2} - \frac{1}{6}$

ア...  $1\frac{5}{6} \div 5\frac{1}{2} = \frac{11}{6} \div \frac{11}{2} = \frac{11}{6} \times \frac{2}{11} = \frac{1}{3}$

イ...  $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

ウ...  $\frac{1}{3} - \frac{1}{6} = \frac{2}{6} - \frac{1}{6} = \frac{1}{6}$

エ...  $\frac{1}{6} \div 1\frac{1}{3} = \frac{1}{6} \div \frac{4}{3} = \frac{1 \times 3}{6 \times 4} = \frac{1}{8}$

オ...  $1 - \frac{1}{8} = \frac{8}{8} - \frac{1}{8} = \frac{7}{8}$

$1\frac{3}{4} \div \frac{7}{8} = \frac{7}{4} \div \frac{7}{8} = \frac{7}{4} \times \frac{8}{7} = \frac{7 \times 8}{4 \times 7} = 2$

## 中学入試用計算問題集(第5回) 解答と解き方

【解答】

$$\boxed{1} \quad 6\frac{29}{60} \qquad \boxed{2} \quad 2\frac{2}{5} \qquad \boxed{3} \quad 1\frac{3}{5}$$

【解き方】

$$\boxed{1} \quad 4 \div \frac{8}{3} = \frac{4 \times 3}{8} = \frac{3}{2} = 1\frac{1}{2}$$

$$1\frac{1}{2} + 7.8 = 1\frac{1}{2} + 7\frac{8}{10} = 1\frac{5}{10} + 7\frac{8}{10} = 8\frac{13}{10} = \frac{93}{10}$$

$$\frac{93}{10} \times \frac{1}{3} = \frac{93 \times 1}{10 \times 3} = \frac{31}{10} = 3\frac{1}{10}$$

$$9\frac{7}{12} - 3\frac{1}{10} = 9\frac{35}{60} - 3\frac{6}{60} = 6\frac{29}{60}$$

$$\boxed{2} \quad 1.5 \times 1\frac{14}{15} = 1\frac{1}{2} \times \frac{29}{15} = \frac{3}{2} \times \frac{29}{15} = \frac{3 \times 29}{2 \times 5} = \frac{29}{10}$$

$$\frac{29}{10} - 1\frac{7}{15} = \frac{29}{10} - \frac{22}{15} = \frac{87}{30} - \frac{44}{30} = \frac{43}{30}$$

$$3\frac{5}{6} - \frac{43}{30} = 3\frac{25}{30} - 1\frac{13}{30} = 2\frac{12}{30} = 2\frac{2}{5}$$

$$\boxed{3} \quad 21 + 3 = 24$$

$$24 \times \frac{2}{3} = \frac{24 \times 2}{3} = 16$$

$$16 - 1\frac{3}{5} = 15\frac{5}{5} - 1\frac{3}{5} = 14\frac{2}{5}$$

$$14\frac{2}{5} \div 9 = \frac{72}{5} \div 9 = \frac{72}{5 \times 9} = \frac{8}{5} = 1\frac{3}{5}$$

## 中学入試用計算問題集(第6回) 解答と解き方

【解答】

①  $3\frac{3}{16}$       ②  $\frac{1}{2}$       ③ 11

【解き方】

①  $2\frac{1}{2} \times \frac{11}{15} = \frac{5}{2} \times \frac{11}{15} = \frac{\overset{1}{\cancel{5}} \times 11}{2 \times \cancel{3}} = \frac{11}{6}$

$$0.25 \times \frac{1}{4} = \frac{1}{4} \times \frac{1}{4} = \frac{1 \times 1}{4 \times 4} = \frac{1}{16}$$

$$\frac{11}{6} - \frac{1}{16} = \frac{88}{48} - \frac{3}{48} = \frac{85}{48}$$

$$\frac{85}{48} \times 1.8 = \frac{85}{48} \times 1\frac{8}{10} = \frac{85}{48} \times 1\frac{4}{5} = \frac{85}{48} \times \frac{9}{5} = \frac{\overset{17}{\cancel{85}} \times \overset{3}{\cancel{9}}}{\underset{16}{\cancel{48}} \times \underset{1}{\cancel{5}}} = \frac{51}{16} = 3\frac{3}{16}$$

②  $\left\{ 2\frac{1}{7} \times \left( 1\frac{1}{3} - \frac{3}{4} \right) - \frac{1}{4} \right\} \div \left\{ 11 \div \left( 2\frac{1}{8} - \frac{3}{4} \right) \times \frac{1}{4} \right\} = ( \quad )$

$$1\frac{1}{3} - \frac{3}{4} = 1\frac{4}{12} - \frac{9}{12} = \frac{16}{12} - \frac{9}{12} = \frac{7}{12}$$

$$2\frac{1}{7} \times \frac{7}{12} = \frac{15}{7} \times \frac{7}{12} = \frac{\overset{5}{\cancel{15}} \times \overset{1}{\cancel{7}}}{\underset{1}{7} \times \underset{4}{\cancel{12}}} = \frac{5}{4}$$

$$\frac{5}{4} - \frac{1}{4} = \frac{4}{4} = 1 \quad \dots \text{ア}$$

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

$$11 \div 1\frac{3}{8} \times \frac{1}{4} = 11 \div \frac{11}{8} \times \frac{1}{4} = \frac{\overset{1}{\cancel{11}} \times \overset{2}{\cancel{8}} \times 1}{\underset{1}{\cancel{11}} \times \underset{1}{4}} = 2 \quad \dots \text{イ}$$

$$1 \div 2 = \frac{1}{2}$$

③  $7 \times 2 \times \left( 4 - 3\frac{6}{7} \right) = 7 \times 2 \times \left( 3\frac{7}{7} - 3\frac{6}{7} \right) = 7 \times 2 \times \frac{1}{7} = \frac{\overset{1}{\cancel{7}} \times 2 \times 1}{\cancel{7}_1} = 2$

$$(18 - 2) \times 2 = 16 \times 2 = 32$$

$$63 \times 3 \times \left( 15 - 14\frac{8}{9} \right) = 63 \times 3 \times \frac{1}{9} = \frac{\overset{7}{\cancel{63}} \times 3 \times 1}{\underset{1}{\cancel{9}}} = 21$$

$$32 - 21 = 11$$