

## 中学入試用計算問題集(第79回)

試験時間 7分

( )月( )日( )曜日

①  $(\frac{2}{7} + 3\frac{1}{21}) \times \frac{6}{13} + 1\frac{11}{13} \times (10 - 6\frac{5}{12}) = ( \quad )$

②  $1.73 \times 5.73 - 0.24 \times 1.73 + 1.73 \times 4.51 = ( \quad )$

③  $176 - 13 \times 6 + \{ 42 \times 5 - (103 - 67) \div 12 \} \div 3 = ( \quad )$

## 中学入試用計算問題集(第80回)

試験時間 7分

( )月( )日( )曜日

①  $\{(24 - 18) \times 4 - 36 \div (5 + 13) \times 5\} \div 7 = ( \quad )$

②  $(6\frac{2}{3} + 3\frac{1}{2} - 7) \div (5\frac{5}{8} - 4\frac{2}{3} + 3) \times (3\frac{1}{2} + 2\frac{1}{3} - 5) = ( \quad )$

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

## 中学入試用計算問題集(第81回)

試験時間 7分

( )月( )日( )曜日

①  $17.2 \div 0.15 = 114$  あまり ( )

②  $( - 4\frac{1}{6} ) \times 3 = 2.5$  = ( )

③  $11\frac{1}{9} \times 10 - 1\frac{1}{9} - \frac{11}{3} \div \frac{3}{7} \times 2 - \frac{22}{27} \div \frac{1}{6} = ( )$

## 中学入試用計算問題集(第82回)

試験時間 7分

( )月( )日( )曜日

①  $2 - \left( \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{6} + \frac{1}{24} \right) = ( \quad )$

②  $3\frac{1}{5} \times \left( \frac{5}{6} \div 4\frac{3}{8} + \frac{2}{3} \times \frac{5}{14} \right) \div 1\frac{3}{5} = ( \quad )$

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

## 中学入試用計算問題集(第83回)

試験時間 7分

( )月( )日( )曜日

①  $18時45分 \div 2時35分 = 7$  あまり ( )分

②  $\{3 + (3 \times 5 - 13)\} \div \left(\frac{1}{3} + \frac{1}{42}\right) = ( \quad )$

③  $\left(\frac{17}{21} + \frac{11}{15} - \frac{19}{35}\right) \div \left(\frac{31}{42} + \frac{29}{66} - \frac{65}{77}\right) = ( \quad )$

## 中学入試用計算問題集(第84回)

試験時間 7分

( )月( )日( )曜日

①  $(\frac{3}{8} \div 1\frac{1}{2} - \frac{1}{6} \times \frac{4}{15} - \frac{1}{8} \times 1\frac{1}{3}) \times 12\frac{6}{7} = ( \quad )$

②  $195 \div \{(41 - 38) \times 5\} + (71 - 54) \times 5 = ( \quad )$

③  $(8\frac{3}{8} - 1\frac{4}{7} \times 2\frac{5}{8}) \div \frac{1}{16} = ( \quad )$

## 中学入試用計算問題集(第79回) 解答と解き方

【解答】

①  $8\frac{2}{13}$

② 17.3

③ 167

【解き方】

①  $\frac{2}{7} + 3\frac{1}{21} = \frac{6}{21} + 3\frac{1}{21} = 3\frac{7}{21} = 3\frac{1}{3}$

$$10 - 6\frac{5}{12} = 9\frac{12}{12} - 6\frac{5}{12} = 3\frac{7}{12}$$

$$3\frac{1}{3} \times \frac{6}{13} = \frac{10}{3} \times \frac{6}{13} = \frac{10 \times \cancel{6}^2}{\cancel{3}_1 \times 13} = \frac{20}{13}$$

$$1\frac{11}{13} \times 3\frac{7}{12} = \frac{24}{13} \times \frac{43}{12} = \frac{\cancel{24}^2 \times 43}{13 \times \cancel{12}_1} = \frac{86}{13}$$

$$\frac{20}{13} + \frac{86}{13} = \frac{106}{13} = 8\frac{2}{13}$$

② 1.73が共通。

$$\begin{aligned} & 1.73 \times 5.73 - 0.24 \times 1.73 + 1.73 \times 4.51 \\ &= 1.73 \times (5.73 - 0.24 + 4.51) \\ &= 1.73 \times (5.49 + 4.51) \\ &= 1.73 \times 10 \\ &= 17.3 \end{aligned}$$

③  $176 - \underline{13 \times 6} + \{ \underline{42 \times 5} - \underline{(103 - 67)} \div 12 \} \div 3 = ( \quad )$

$$= 176 - 78 + (210 - \underline{36 \div 12}) \div 3$$

$$= 176 - 78 + (210 - 3) \div 3$$

$$= 176 - 78 + \underline{207 \div 3}$$

$$= 176 - 78 + 69$$

$$= 98 + 69$$

$$= 167$$

## 中学入試用計算問題集(第80回) 解答と解き方

【解答】

① 2                      ②  $\frac{2}{3}$                       ③  $\frac{1}{6}$

【解き方】

$$\begin{aligned} \text{① } & \{ (24 - 18) \times 4 - 36 \div (5 + 13) \times 5 \} \div 7 \\ & = (6 \times 4 - 36 \div 18 \times 5) \div 7 \\ & = (24 - 10) \div 7 \\ & = 14 \div 7 \\ & = 2 \end{aligned}$$

$$\begin{aligned} \text{② } & 6\frac{2}{3} + 3\frac{1}{2} - 7 = 6\frac{4}{6} + 3\frac{3}{6} - 7 = 9\frac{7}{6} - 7 = 10\frac{1}{6} - 7 = 3\frac{1}{6} \\ & 5\frac{5}{8} - 4\frac{2}{3} + 3 = 5\frac{15}{24} - 4\frac{16}{24} + 3 = 4\frac{39}{24} - 4\frac{16}{24} + 3 = \frac{23}{24} + 3 = 3\frac{23}{24} \\ & 3\frac{1}{2} + 2\frac{1}{3} - 5 = 3\frac{3}{6} + 2\frac{2}{6} - 5 = 5\frac{5}{6} - 5 = \frac{5}{6} \\ & 3\frac{1}{6} \div 3\frac{23}{24} \times \frac{5}{6} = \frac{19}{6} \div \frac{95}{24} \times \frac{5}{6} = \frac{1}{6} \times \frac{24}{95} \times \frac{5}{6} = \frac{2}{3} \end{aligned}$$

$$\begin{aligned} \text{③ } & \left( \frac{5}{6} - \quad \right) \div 1\frac{1}{3} + \frac{1}{2} = 1 \\ & 1 - \frac{1}{2} = \frac{2}{2} - \frac{1}{2} = \frac{1}{2} \\ & \left( \quad \right) = \frac{1}{2} \times 1\frac{1}{3} = \frac{1}{2} \times \frac{4}{3} = \frac{1 \times 4}{2 \times 3} = \frac{2}{3} \\ & \frac{5}{6} - \frac{2}{3} = \frac{5}{6} - \frac{4}{6} = \frac{1}{6} \end{aligned}$$





## 中学入試用計算問題集(第82回) 解答と解き方

【解答】

$$\boxed{1} \quad \frac{17}{24} \qquad \boxed{2} \quad 1 \qquad \boxed{3} \quad \frac{1}{2}$$

【解き方】

$$\begin{aligned} \boxed{1} \quad & 2 - \left( \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{6} + \frac{1}{24} \right) \\ &= 2 - \left( \frac{12}{24} + \frac{8}{24} + \frac{6}{24} + \frac{4}{24} + \frac{1}{24} \right) \\ &= 2 - \frac{31}{24} \\ &= \frac{48}{24} - \frac{31}{24} \\ &= \frac{17}{24} \end{aligned}$$

$$\begin{aligned} \boxed{2} \quad & \frac{5}{6} \div 4 \frac{3}{8} = \frac{5}{6} \div \frac{35}{8} = \frac{1}{3} \times \frac{8^4}{3 \times 35} = \frac{4}{21} \\ & \frac{2}{3} \times \frac{5}{14} = \frac{1}{3} \times \frac{5}{7} = \frac{5}{21} \end{aligned}$$

$$\frac{4}{21} + \frac{5}{21} = \frac{9}{21} = \frac{3}{7}$$

$$3 \frac{1}{5} \times \frac{3}{7} \div 1 \frac{13}{35} = \frac{16}{5} \times \frac{3}{7} \div \frac{48}{35} = \frac{1}{5} \times \frac{1}{7} \times \frac{35}{48} = 1$$

$$\begin{aligned} \boxed{3} \quad & \frac{1}{2} \times 2 \frac{2}{3} = \frac{1}{2} \times \frac{8}{3} = \frac{1 \times 8^4}{2 \times 3} = \frac{4}{3} \\ & 1 \frac{3}{4} - \frac{4}{3} = \frac{7}{4} - \frac{4}{3} = \frac{21}{12} - \frac{16}{12} = \frac{5}{12} \\ & 1 \frac{2}{3} \div \frac{5}{12} = \frac{5}{3} \div \frac{5}{12} = \frac{1}{3} \times \frac{12^4}{5} = 4 \\ & 4 \frac{1}{2} - 4 = \frac{1}{2} \end{aligned}$$

## 中学入試用計算問題集(第83回) 解答と解き方

【解答】

① 40

② 14

③ 3

【解き方】

① 18時45分...  $60 \times 18 + 45 = 1125$ 分

2時35分...  $60 \times 2 + 35 = 155$ 分

$1125 \div 155 = 7$  あまり 40

②  $\{3 + (3 \times 5 - 13)\} \div \left(\frac{1}{3} + \frac{1}{42}\right)$

$= \{3 + (15 - 13)\} \div \left(\frac{14}{42} + \frac{1}{42}\right)$

$= (3 + 2) \div \frac{15}{42}$

$= 5 \div \frac{15}{42}$

$$= \frac{\cancel{5} \times \cancel{42}^{14}}{\cancel{15}^3}$$

$= 14$

③  $\frac{17}{21} + \frac{11}{15} - \frac{19}{35} = \frac{85}{105} + \frac{77}{105} - \frac{57}{105} = \frac{105}{105} = 1$

$\frac{31}{42} + \frac{29}{66} - \frac{65}{77} = \frac{341}{462} + \frac{203}{462} - \frac{390}{462} = \frac{154}{462} = \frac{1}{3}$

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

## 中学入試用計算問題集(第84回) 解答と解き方

【解答】

①  $\frac{1}{2}$                       ② 98                      ③ 68

【解き方】

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

$$\frac{1}{6} \times \frac{4}{15} = \frac{1 \times 4}{6 \times 15} = \frac{2}{45}$$

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

$$\frac{1}{4} - \frac{2}{45} - \frac{1}{6} = \frac{45}{180} - \frac{8}{180} - \frac{30}{180} = \frac{7}{180}$$

$$\frac{7}{180} \times 12\frac{6}{7} = \frac{7}{180} \times \frac{90}{7} = \frac{1}{2}$$

$$\begin{aligned} \text{② } & 195 \div \{(41 - 38) \times 5\} + (71 - 54) \times 5 \\ & = 195 \div (3 \times 5) + 17 \times 5 \\ & = 195 \div 15 + 17 \times 5 \\ & = 13 + 85 \\ & = 98 \end{aligned}$$

$$\text{③ } 1\frac{4}{7} \times 2\frac{5}{8} = \frac{11}{7} \times \frac{21}{8} = \frac{11 \times 21}{7 \times 8} = \frac{33}{8}$$

$$8\frac{3}{8} - \frac{33}{8} = \frac{67}{8} - \frac{33}{8} = \frac{34}{8} = \frac{17}{4}$$

$$\frac{17}{4} \div \frac{1}{16} = \frac{17 \times 16}{4 \times 1} = 68$$