

# 中学受験新演習算数小5 〈計算補助教材〉

## 1 整数と小数のかけ算とわり算

P. 2

- 1**
- |          |          |
|----------|----------|
| (1) 5.2  | (2) 16.8 |
| (3) 9    | (4) 7.2  |
| (5) 126  | (6) 28.8 |
| (7) 54.4 | (8) 76.8 |
| (9) 126  | (10) 8.4 |

**解説**

(2) 7	(3) 6
$\times 2.4$	$\times 1.5$
<u>28</u>	<u>30</u>
14	6
<u>16.8</u>	<u>9.0</u>

(7) 17	(9) 45
$\times 3.2$	$\times 2.8$
<u>34</u>	<u>360</u>
51	90
<u>54.4</u>	<u>126.0</u>

P. 3

- 2**
- |             |            |
|-------------|------------|
| (1) 8.75    | (2) 12.96  |
| (3) 15.84   | (4) 89.46  |
| (5) 3.36    | (6) 2.352  |
| (7) 105.191 | (8) 74.97  |
| (9) 11.522  | (10) 17.85 |

**解説**

(4) 21	(8) 35
$\times 4.26$	$\times 2.142$
<u>126</u>	<u>70</u>
42	140
84	35
<u>89.46</u>	<u>70</u>
	<u>74.970</u>

- 3**
- |        |         |
|--------|---------|
| (1) 5  | (2) 2   |
| (3) 5  | (4) 40  |
| (5) 4  | (6) 15  |
| (7) 20 | (8) 50  |
| (9) 25 | (10) 36 |

**解説**

(2) $5 \div 2.5$	(9) $30 \div 1.2$
$\downarrow \quad \downarrow$	$\downarrow \quad \downarrow$
$50 \div 25 = 2$	$300 \div 12 = 25$

P. 4

- 4**
- |         |          |
|---------|----------|
| (1) 12  | (2) 5    |
| (3) 50  | (4) 15   |
| (5) 65  | (6) 62   |
| (7) 320 | (8) 350  |
| (9) 635 | (10) 635 |

**解説**

(2) $4 \div 0.8$	(8) $245 \div 0.7$
$\downarrow \quad \downarrow$	$\downarrow \quad \downarrow$
$40 \div 8 = 5$	$2450 \div 7 = 350$

- 5**
- |           |           |
|-----------|-----------|
| (1) 48    | (2) 85    |
| (3) 35    | (4) 75    |
| (5) 55    | (6) 65    |
| (7) 65    | (8) 37.5  |
| (9) 71.25 | (10) 57.5 |

**解説**

(2) $119 \div 1.4$	(9) $228 \div 3.2$
$\downarrow \quad \downarrow$	$\downarrow \quad \downarrow$
$1190 \div 14 = 85$	$2280 \div 32 = 71.25$

## 2 小数と小数のかけ算

P. 5

- 1**
- |            |           |
|------------|-----------|
| (1) 2.73   | (2) 16.56 |
| (3) 6.44   | (4) 6.66  |
| (5) 11.62  | (6) 9.5   |
| (7) 38.61  | (8) 34.72 |
| (9) 116.92 | (10) 83.7 |

**解説**

(2) $\begin{array}{r} 7.2 \\ \times 2.3 \\ \hline 216 \\ 144 \\ \hline 16.56 \end{array}$	(6) $\begin{array}{r} 3.8 \\ \times 2.5 \\ \hline 190 \\ 76 \\ \hline 9.50 \end{array}$
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P. 6

- 2**
- |          |           |
|----------|-----------|
| (1) 2.94 | (2) 1.92  |
| (3) 2.96 | (4) 1.41  |
| (5) 8.72 | (6) 9.85  |
| (7) 1.84 | (8) 0.76  |
| (9) 6.35 | (10) 14.8 |

**解説**

(8) $\begin{array}{r} 0.2 \\ \times 3.8 \\ \hline 16 \\ 6 \\ \hline 0.76 \end{array}$	(10) $\begin{array}{r} 0.8 \\ \times 18.5 \\ \hline 40 \\ 64 \\ 8 \\ \hline 14.80 \end{array}$
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- 3**
- |           |            |
|-----------|------------|
| (1) 0.245 | (2) 1.898  |
| (3) 3.381 | (4) 10.062 |
| (5) 4.326 | (6) 0.336  |
| (7) 2.584 | (8) 7.128  |
| (9) 6.66  | (10) 3.536 |

**解説**

(3) $\begin{array}{r} 14.7 \\ \times 0.23 \\ \hline 441 \\ 294 \\ \hline 3.381 \end{array}$	(5) $\begin{array}{r} 4.2 \\ \times 1.03 \\ \hline 126 \\ 42 \\ \hline 4.326 \end{array}$
(7) $\begin{array}{r} 0.76 \\ \times 3.4 \\ \hline 304 \\ 228 \\ \hline 2.584 \end{array}$	(9) $\begin{array}{r} 0.45 \\ \times 14.8 \\ \hline 360 \\ 180 \\ 45 \\ \hline 6.660 \end{array}$

P. 7

- 4**
- |               |               |
|---------------|---------------|
| (1) 9.0288    | (2) 8.1096    |
| (3) 3.2085    | (4) 2.2631    |
| (5) 0.3492    | (6) 10.918    |
| (7) 30.49634  | (8) 4.68096   |
| (9) 11.271912 | (10) 1.788435 |

**解説**

(10) 
$$\begin{array}{r} 3.613 \rightarrow 3\text{けた} \\ \times 0.495 \rightarrow 3\text{けた} \\ \hline 18065 \\ 32517 \\ 14452 \\ \hline 1.788435 \leftarrow 6\text{けた} \end{array}$$

### 3 小数と小数のわり算

P. 8

- 1**
- |           |           |
|-----------|-----------|
| (1) 1.5   | (2) 4.8   |
| (3) 14    | (4) 3.4   |
| (5) 7.35  | (6) 6.7   |
| (7) 43.15 | (8) 0.3   |
| (9) 1.6   | (10) 17.5 |

**解説**

(3) $\begin{array}{r} 14 \\ 0.4 \overline{) 5.6} \\ \underline{4} \phantom{0} \\ 16 \\ \underline{16} \\ 0 \end{array}$	(5) $\begin{array}{r} 7.35 \\ 4.2 \overline{) 30.87} \\ \underline{294} \phantom{0} \\ 147 \\ \underline{126} \\ 210 \\ \underline{210} \\ 0 \end{array}$
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P. 9

- 2**
- |                   |                   |
|-------------------|-------------------|
| (1) 3.3あまり0.21    | (2) 8.4あまり0.08    |
| (3) 2あまり0.2       | (4) 2.5あまり0.15    |
| (5) 4あまり0.1       | (6) 3.2あまり0.36    |
| (7) 7.1あまり0.64    | (8) 14あまり0.03     |
| (9) 299.1あまり0.016 | (10) 64.4あまり0.024 |

**解説**

(2) $\begin{array}{r} 8.4 \\ 3.8 \overline{) 32.0} \\ \underline{304} \phantom{0} \\ 160 \\ \underline{152} \\ 0.08 \end{array}$	(10) $\begin{array}{r} 64.4 \\ 0.29 \overline{) 18.70} \\ \underline{174} \phantom{0} \\ 130 \\ \underline{116} \\ 140 \\ \underline{116} \\ 0.024 \end{array}$
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- 3**
- |                 |                 |
|-----------------|-----------------|
| (1) 4.2あまり0.04  | (2) 5.2あまり0.04  |
| (3) 3.7あまり0.24  | (4) 5.9あまり0.62  |
| (5) 2.9あまり0.08  | (6) 6.6あまり0.12  |
| (7) 19.3あまり0.01 | (8) 13.7あまり0.01 |
| (9) 8.7あまり0.016 | (10) 23あまり0.02  |

**解説**

(2) $\begin{array}{r} 5.2 \\ 1.8 \overline{) 9.4} \\ \underline{90} \phantom{0} \\ 40 \\ \underline{36} \\ 0.04 \end{array}$	(10) $\begin{array}{r} 23.0 \\ 0.36 \overline{) 8.30} \\ \underline{72} \phantom{0} \\ 110 \\ \underline{108} \\ 0.020 \end{array}$
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P. 10

- 4**
- |          |          |
|----------|----------|
| (1) 3.7  | (2) 3.7  |
| (3) 9.6  | (4) 5.7  |
| (5) 4.6  | (6) 0.39 |
| (7) 0.71 | (8) 0.58 |
| (9) 3.8  | (10) 7.0 |

**解説**

(2) $\begin{array}{r} 3.70 \\ 2.4 \overline{) 8.9} \\ \underline{72} \phantom{0} \\ 170 \\ \underline{168} \\ 20 \end{array}$	(6) $\begin{array}{r} 0.385 \\ 8.3 \overline{) 3.20} \\ \underline{249} \phantom{0} \\ 710 \\ \underline{664} \\ 460 \\ \underline{415} \\ 45 \end{array}$
---	--

- 5**
- |         |           |
|---------|-----------|
| (1) 4.4 | (2) 3.1   |
| (3) 6.8 | (4) 5.2   |
| (5) 5.1 | (6) 0.5   |
| (7) 0.6 | (8) 0.5   |
| (9) 3.7 | (10) 17.3 |

**解説**

(2) $\begin{array}{r} 3.09 \\ 3.1 \overline{) 9.6} \\ \underline{93} \phantom{0} \\ 300 \\ \underline{279} \\ 21 \end{array}$	(9) $\begin{array}{r} 3.68 \\ 1.72 \overline{) 6.30} \\ \underline{516} \phantom{0} \\ 1140 \\ \underline{1032} \\ 1080 \\ \underline{1032} \\ 48 \end{array}$
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## 4 約分

P. 11

1

- (1) 1, 2, 3, 6
- (2) 1, 3, 9
- (3) 1, 2, 3, 6, 9, 18
- (4) 1, 2, 3, 4, 6, 8, 12, 24
- (5) 1, 2, 4, 5, 8, 10, 20, 40
- (6) 1, 3, 19, 57
- (7) 1, 5, 13, 65
- (8) 1, 3, 29, 87
- (9) 1, 3, 31, 93
- (10) 1, 2, 4, 5, 10, 20, 25, 50, 100

解説

$$\begin{array}{l} (6) \quad 57 \div 1 = 57 \\ \quad \quad 57 \div 3 = 19 \end{array}$$

└── 57の約数

P. 12

2

- (1) 1, 2
- (2) 1, 2
- (3) 1, 2, 3, 6
- (4) 1, 7
- (5) 1, 3
- (6) 1, 2
- (7) 1, 2, 4
- (8) 1, 3
- (9) 1, 2, 5, 10
- (10) 1, 2, 3, 6

解説

(1)~(4)

小さいほうの整数の約数の中から、大きいほうの整数の約数になっているものを見つける。

(5)~(10)

もっとも小さい整数の約数の中から、残りの2つの整数の約数になっているものを見つける。

3

- (1) 4
- (2) 8
- (3) 3
- (4) 6
- (5) 4
- (6) 9
- (7) 12
- (8) 5
- (9) 40
- (10) 25

解説

公約数の中で、もっとも大きい整数を見つける。

P. 13

4

- (1)  $\frac{1}{2}$
- (2)  $\frac{1}{3}$
- (3)  $\frac{1}{4}$
- (4)  $\frac{1}{3}$
- (5)  $\frac{1}{5}$
- (6)  $\frac{1}{3}$
- (7)  $\frac{1}{2}$
- (8)  $\frac{1}{3}$
- (9)  $\frac{1}{6}$
- (10)  $\frac{1}{14}$

解説

$$(2) \quad \frac{\cancel{2}}{\cancel{6}_3} = \frac{1}{3} \qquad (5) \quad \frac{\cancel{2}}{\cancel{10}_5} = \frac{1}{5}$$

5

- (1)  $\frac{4}{5}$
- (2)  $\frac{2}{3}$
- (3)  $\frac{2}{3}$
- (4)  $\frac{2}{3}$
- (5)  $\frac{5}{8}$
- (6)  $\frac{3}{4}$
- (7)  $\frac{4}{7}$
- (8)  $\frac{5}{6}$
- (9)  $\frac{7}{8}$
- (10)  $\frac{3}{4}$

解説

$$(5) \quad \frac{\cancel{5}}{\cancel{24}_8} = \frac{5}{8} \qquad (7) \quad \frac{\cancel{4}}{\cancel{28}_7} = \frac{4}{7}$$

## 5 通分

P. 14

- 1**
- |                |                   |
|----------------|-------------------|
| (1) 2, 4, 6    | (2) 4, 8, 12      |
| (3) 5, 10, 15  | (4) 11, 22, 33    |
| (5) 13, 26, 39 | (6) 18, 36, 54    |
| (7) 22, 44, 66 | (8) 25, 50, 75    |
| (9) 30, 60, 90 | (10) 50, 100, 150 |

**解説** 1, 2, 3を順にかける。

P. 15

- 2**
- |                  |                   |
|------------------|-------------------|
| (1) 20, 40, 60   | (2) 12, 24, 36    |
| (3) 18, 36, 54   | (4) 30, 60, 90    |
| (5) 56, 112, 168 | (6) 40, 80, 120   |
| (7) 16, 32, 48   | (8) 36, 72, 108   |
| (9) 90, 180, 270 | (10) 80, 160, 240 |

**解説** 大きいほうの整数の倍数を書き出して、そのなかから小さいほうの整数の倍数を見つける。

- 3**
- |        |          |
|--------|----------|
| (1) 14 | (2) 24   |
| (3) 12 | (4) 45   |
| (5) 30 | (6) 48   |
| (7) 12 | (8) 60   |
| (9) 36 | (10) 180 |

**解説** 公倍数の中で、もっとも小さい整数を見つける。

P. 16

- 4**
- |   |   |
|---|---|
| (1) $\frac{4}{12}, \frac{9}{12}$                        | (2) $\frac{9}{12}, \frac{2}{12}$                      |
| (3) $\frac{12}{30}, \frac{5}{30}$                       | (4) $\frac{15}{18}, \frac{14}{18}$                    |
| (5) $\frac{35}{45}, \frac{24}{45}$                      | (6) $\frac{42}{60}, \frac{25}{60}$                    |
| (7) $\frac{6}{12}, \frac{8}{12}, \frac{3}{12}$          | (8) $\frac{27}{36}, \frac{30}{36}, \frac{28}{36}$     |
| (9) $\frac{220}{240}, \frac{135}{240}, \frac{204}{240}$ | (10) $\frac{78}{180}, \frac{76}{180}, \frac{69}{180}$ |

**解説**

$$(3) \frac{2}{5} = \frac{12}{30}, \frac{1}{6} = \frac{5}{30}$$

$$(8) \frac{3}{4} = \frac{27}{36}, \frac{5}{6} = \frac{30}{36}, \frac{7}{9} = \frac{28}{36}$$

**5**

- |   |  |
|---|--|
| (1) $\frac{3}{4}, \frac{2}{3}$                  | (2) $\frac{3}{4}, \frac{3}{5}$                   |
| (3) $\frac{5}{8}, \frac{3}{5}$                  | (4) $\frac{7}{8}, \frac{5}{6}$                   |
| (5) $\frac{11}{15}, \frac{7}{12}$               | (6) $\frac{17}{24}, \frac{9}{16}$                |
| (7) $\frac{1}{2}, \frac{2}{5}, \frac{1}{3}$     | (8) $\frac{5}{6}, \frac{11}{15}, \frac{7}{10}$   |
| (9) $\frac{19}{20}, \frac{11}{12}, \frac{8}{9}$ | (10) $\frac{13}{20}, \frac{7}{12}, \frac{8}{15}$ |

**解説**

分母がちがう分数の大きさをくらべるときは、通分して、分母が同じ分数にしてくらべる。

$$(2) \frac{3}{4} = \frac{15}{20}, \frac{3}{5} = \frac{12}{20}$$

$$(10) \frac{7}{12} = \frac{35}{60}, \frac{8}{15} = \frac{32}{60}, \frac{13}{20} = \frac{39}{60}$$

## 6 分数のたし算とひき算(1)

P. 17

1

- (1)  $\frac{11}{15}$       (2)  $1\frac{1}{6}$       (3)  $\frac{17}{20}$   
 (4)  $\frac{15}{28}$       (5)  $\frac{31}{35}$       (6)  $\frac{23}{30}$   
 (7)  $\frac{39}{56}$       (8)  $\frac{55}{63}$       (9)  $\frac{31}{36}$   
 (10)  $1\frac{13}{90}$

解説

$$\begin{aligned} (2) \quad & \frac{1}{2} + \frac{2}{3} & (5) \quad & \frac{3}{5} + \frac{2}{7} \\ & = \frac{3}{6} + \frac{4}{6} & & = \frac{21}{35} + \frac{10}{35} \\ & = \frac{7}{6} = 1\frac{1}{6} & & = \frac{31}{35} \end{aligned}$$

P. 18

2

- (1)  $\frac{1}{6}$       (2)  $\frac{5}{12}$       (3)  $\frac{1}{20}$   
 (4)  $\frac{6}{35}$       (5)  $\frac{29}{72}$       (6)  $\frac{7}{24}$   
 (7)  $\frac{7}{40}$       (8)  $\frac{2}{45}$       (9)  $\frac{23}{24}$   
 (10)  $\frac{9}{70}$

解説

$$\begin{aligned} (2) \quad & \frac{3}{4} - \frac{1}{3} & (9) \quad & \frac{11}{8} - \frac{5}{12} \\ & = \frac{9}{12} - \frac{4}{12} & & = \frac{33}{24} - \frac{10}{24} \\ & = \frac{5}{12} & & = \frac{23}{24} \end{aligned}$$

3

- (1)  $1\frac{1}{3}$       (2)  $\frac{5}{6}$       (3)  $\frac{5}{9}$   
 (4)  $\frac{3}{5}$       (5)  $\frac{4}{5}$       (6)  $\frac{3}{5}$   
 (7)  $1\frac{1}{7}$       (8)  $1\frac{1}{6}$       (9)  $\frac{5}{6}$   
 (10)  $\frac{7}{8}$

解説

$$\begin{aligned} (3) \quad & \frac{1}{6} + \frac{7}{18} & (8) \quad & \frac{3}{10} + \frac{13}{15} \\ & = \frac{3}{18} + \frac{7}{18} & & = \frac{9}{30} + \frac{26}{30} \\ & = \frac{10}{18} & & = \frac{35}{30} \\ & = \frac{5}{9} & & = \frac{7}{6} = 1\frac{1}{6} \end{aligned}$$

P. 19

4

- (1)  $\frac{1}{3}$       (2)  $\frac{1}{6}$       (3)  $\frac{4}{9}$   
 (4)  $\frac{1}{10}$       (5)  $\frac{1}{5}$       (6)  $\frac{3}{5}$   
 (7)  $\frac{1}{7}$       (8)  $\frac{1}{2}$       (9)  $\frac{1}{2}$   
 (10)  $1\frac{4}{9}$

解説

$$\begin{aligned} (2) \quad & \frac{11}{12} - \frac{3}{4} & (6) \quad & \frac{5}{6} - \frac{7}{30} \\ & = \frac{11}{12} - \frac{9}{12} & & = \frac{25}{30} - \frac{7}{30} \\ & = \frac{2}{12} = \frac{1}{6} & & = \frac{18}{30} = \frac{3}{5} \end{aligned}$$

## 7 分数のたし算とひき算(2)

P. 20

1

- (1)  $\frac{7}{3}$       (2)  $\frac{11}{3}$       (3)  $\frac{7}{5}$   
 (4)  $\frac{25}{6}$       (5) 4      (6) 7  
 (7)  $2\frac{2}{3}$       (8)  $4\frac{3}{5}$       (9)  $4\frac{1}{6}$   
 (10)  $4\frac{3}{8}$

解説

- (2) 1は $\frac{1}{3}$ の3こぶんなので、3は $\frac{1}{3}$ の  
 $3 \times 3$ こぶん。9+2=11より、  
 $3\frac{2}{3}$ は $\frac{1}{3}$ の11こぶんで、 $\frac{11}{3}$   
 (8)  $\frac{23}{5}$ には $\frac{5}{5}(=1)$ が $23 \div 5 = 4$ こ  
 ぶんで、あまりが3なので、  
 $\frac{23}{5} = 4 + \frac{3}{5} = 4\frac{3}{5}$

P. 21

2

- (1)  $3\frac{5}{6}$       (2)  $4\frac{17}{20}$       (3)  $4\frac{7}{12}$   
 (4)  $5\frac{15}{28}$       (5)  $5\frac{5}{12}$       (6)  $8\frac{5}{24}$   
 (7)  $7\frac{5}{18}$       (8)  $8\frac{7}{36}$       (9)  $10\frac{11}{24}$   
 (10)  $7\frac{7}{60}$

解説

- (7)  $4\frac{4}{9} + 2\frac{5}{6}$   
 $= 4\frac{8}{18} + 2\frac{15}{18}$   
 $= 4 + 2 + \frac{8}{18} + \frac{15}{18}$   
 $= 6 + \frac{23}{18}$   
 $= 6 + 1\frac{5}{18}$   
 $= 7\frac{5}{18}$

3

- (1)  $2\frac{5}{12}$       (2)  $\frac{1}{10}$       (3)  $2\frac{1}{18}$   
 (4)  $3\frac{11}{24}$       (5)  $5\frac{13}{40}$       (6)  $4\frac{23}{36}$   
 (7)  $2\frac{11}{18}$       (8)  $2\frac{5}{12}$       (9)  $1\frac{29}{30}$   
 (10)  $3\frac{7}{12}$

解説

- (10)  $8\frac{9}{20} - 4\frac{13}{15}$   
 $= 8\frac{27}{60} - 4\frac{52}{60}$   
 $= 7\frac{87}{60} - 4\frac{52}{60}$   
 $= 3\frac{35}{60} = 3\frac{7}{12}$

P. 22

4

- (1)  $3\frac{1}{12}$       (2)  $6\frac{37}{40}$       (3)  $2\frac{19}{30}$   
 (4)  $7\frac{11}{24}$       (5)  $4\frac{7}{30}$       (6)  $2\frac{2}{3}$   
 (7)  $2\frac{1}{12}$       (8)  $1\frac{11}{12}$       (9)  $1\frac{1}{10}$   
 (10)  $1\frac{1}{8}$

解説

- (2)  $2\frac{3}{5} + 1\frac{7}{10} + 2\frac{5}{8}$   
 $= 2\frac{24}{40} + 1\frac{28}{40} + 2\frac{25}{40}$   
 $= 5 + \frac{77}{40}$   
 $= 5 + 1\frac{37}{40}$   
 $= 6\frac{37}{40}$

## 8 分数と小数のたし算とひき算

P. 23

- 1**
- |         |           |           |
|---------|-----------|-----------|
| (1) 0.4 | (2) 0.625 | (3) 1.75  |
| (4) 2.7 | (5) 1.28  | (6) 3     |
| (7) 2.8 | (8) 4.75  | (9) 1.375 |
| (10) 4  |           |           |

解説

$$(2) \frac{5}{8} = 5 \div 8 = 0.625$$

$$(5) 1\frac{7}{25} = 1 + \frac{7}{25}$$

$$= 1 + 7 \div 25 = 1 + 0.28 = 1.28$$

$$(8) \frac{19}{4} = 19 \div 4 = 4.75$$

P. 24

- 2**
- |                       |                      |                      |
|-----------------------|----------------------|----------------------|
| (1) $\frac{9}{10}$    | (2) $1\frac{3}{5}$   | (3) $\frac{29}{100}$ |
| (4) $2\frac{17}{100}$ | (5) $\frac{2}{5}$    | (6) $3\frac{2}{5}$   |
| (7) $\frac{12}{25}$   | (8) $2\frac{17}{25}$ | (9) $\frac{4}{1}$    |
| (10) $1\frac{29}{40}$ |                      |                      |

解説

$$(7) 0.48 = \frac{48}{100} = \frac{12}{25}$$

$$(10) 1.725 = 1 + 0.725$$

$$= 1 + \frac{725}{1000} = 1\frac{29}{40}$$

- 3**
- |                        |                       |                      |
|------------------------|-----------------------|----------------------|
| (1) $\frac{11}{15}$    | (2) $\frac{9}{20}$    | (3) $\frac{69}{70}$  |
| (4) $\frac{7}{10}$     | (5) $\frac{131}{200}$ | (6) $\frac{19}{70}$  |
| (7) $\frac{1}{20}$     | (8) $\frac{7}{30}$    | (9) $\frac{79}{300}$ |
| (10) $\frac{143}{180}$ |                       |                      |

解説

(5) $0.28 + \frac{3}{8}$	(9) $0.43 - \frac{1}{6}$
$= \frac{7}{25} + \frac{3}{8}$	$= \frac{43}{100} - \frac{1}{6}$
$= \frac{56}{200} + \frac{75}{200}$	$= \frac{129}{300} - \frac{50}{300}$
$= \frac{131}{200}$	$= \frac{79}{300}$

P. 25

- 4**
- |                       |                      |                       |
|-----------------------|----------------------|-----------------------|
| (1) $1\frac{1}{20}$   | (2) $\frac{53}{60}$  | (3) $\frac{41}{60}$   |
| (4) $\frac{59}{60}$   | (5) $\frac{37}{280}$ | (6) $\frac{259}{900}$ |
| (7) $1\frac{7}{12}$   | (8) $1\frac{7}{600}$ | (9) $\frac{176}{225}$ |
| (10) $\frac{37}{100}$ |                      |                       |

解説

$$(5) \frac{6}{7} + \frac{3}{8} - 1.1 = \frac{6}{7} + \frac{3}{8} - \frac{11}{10}$$

$$= \frac{240}{280} + \frac{105}{280} - \frac{308}{280}$$

$$= \frac{37}{280}$$



## 9 分数と整数のかけ算

P. 26

1

- (1)  $1\frac{1}{3}$       (2)  $3\frac{3}{4}$       (3)  $6\frac{2}{5}$   
 (4)  $4\frac{1}{6}$       (5)  $3\frac{3}{7}$       (6)  $4\frac{3}{8}$   
 (7)  $6\frac{2}{9}$       (8)  $2\frac{1}{10}$       (9)  $2\frac{11}{12}$   
 (10)  $3\frac{11}{15}$

解説

$$(2) \frac{3}{4} \times 5 = \frac{3 \times 5}{4} = \frac{15}{4} = 3\frac{3}{4}$$

$$(10) \frac{8}{15} \times 7 = \frac{8 \times 7}{15} = \frac{56}{15} = 3\frac{11}{15}$$

P. 27

2

- (1)  $5\frac{1}{7}$       (2)  $6\frac{7}{8}$       (3)  $5\frac{17}{20}$   
 (4)  $6\frac{2}{9}$       (5)  $7\frac{7}{12}$       (6)  $13\frac{1}{8}$   
 (7)  $6\frac{9}{16}$       (8)  $14\frac{7}{13}$       (9)  $18\frac{2}{11}$   
 (10)  $8\frac{8}{15}$

解説

$$(2) \frac{5}{8} \times 11 = \frac{5 \times 11}{8} = \frac{55}{8} = 6\frac{7}{8}$$

$$(5) \frac{7}{12} \times 13 = \frac{7 \times 13}{12} = \frac{91}{12} = 7\frac{7}{12}$$

3

- (1)  $4\frac{1}{2}$       (2)  $6\frac{2}{3}$       (3)  $4\frac{1}{5}$   
 (4)  $3\frac{1}{2}$       (5)  $4\frac{2}{3}$       (6)  $4\frac{1}{6}$   
 (7)  $6\frac{2}{5}$       (8)  $19\frac{1}{2}$       (9)  $10\frac{2}{5}$   
 (10)  $8\frac{2}{3}$

解説

$$(3) \frac{7}{15} \times 9 = \frac{7 \times 9}{15} = \frac{21}{5} = 4\frac{1}{5}$$

$$(6) \frac{5}{12} \times 10 = \frac{5 \times 10}{12} = \frac{25}{6} = 4\frac{1}{6}$$

P. 28

4

- (1)  $5\frac{1}{7}$       (2)  $7\frac{4}{5}$       (3)  $7\frac{2}{9}$   
 (4)  $13\frac{1}{8}$       (5)  $9\frac{1}{3}$       (6)  $11\frac{1}{3}$   
 (7)  $9\frac{1}{2}$       (8)  $30\frac{2}{3}$       (9)  $24\frac{2}{3}$   
 (10)  $8\frac{1}{3}$

解説

$$(2) 2\frac{3}{5} \times 3 = \frac{13 \times 3}{5} = \frac{39}{5} = 7\frac{4}{5}$$

$$(7) 2\frac{3}{8} \times 4 = \frac{19 \times 4}{8} = \frac{19}{2} = 9\frac{1}{2}$$

## 10 分数と整数のわり算

P. 29

1

- (1)  $\frac{3}{20}$       (2)  $\frac{3}{20}$       (3)  $\frac{2}{21}$   
 (4)  $\frac{5}{48}$       (5)  $\frac{5}{54}$       (6)  $\frac{3}{70}$   
 (7)  $\frac{11}{48}$       (8)  $\frac{8}{45}$       (9)  $\frac{13}{45}$   
 (10)  $\frac{5}{64}$

解説

$$(2) \frac{3}{5} \div 4 = \frac{3}{5 \times 4} = \frac{3}{20}$$

$$(4) \frac{5}{8} \div 6 = \frac{5}{8 \times 6} = \frac{5}{48}$$

P. 30

2

- (1)  $\frac{2}{45}$       (2)  $\frac{2}{39}$       (3)  $\frac{4}{77}$   
 (4)  $\frac{7}{88}$       (5)  $\frac{9}{100}$       (6)  $\frac{8}{135}$   
 (7)  $\frac{8}{195}$       (8)  $\frac{7}{121}$       (9)  $\frac{9}{140}$   
 (10)  $\frac{3}{128}$

解説

$$(5) \frac{9}{10} \div 10 = \frac{9}{10 \times 10} = \frac{9}{100}$$

$$(8) \frac{7}{11} \div 11 = \frac{7}{11 \times 11} = \frac{7}{121}$$

3

- (1)  $\frac{1}{16}$       (2)  $\frac{1}{10}$       (3)  $\frac{1}{10}$   
 (4)  $\frac{2}{27}$       (5)  $\frac{3}{40}$       (6)  $\frac{2}{21}$   
 (7)  $\frac{3}{70}$       (8)  $\frac{3}{32}$       (9)  $\frac{2}{45}$   
 (10)  $\frac{1}{26}$

解説

$$(4) \frac{4}{9} \div 6 = \frac{\overset{2}{\cancel{4}}}{9 \times \underset{3}{\cancel{6}}} = \frac{2}{27}$$

$$(8) \frac{15}{16} \div 10 = \frac{\overset{3}{\cancel{15}}}{16 \times \underset{2}{\cancel{10}}} = \frac{3}{32}$$

P. 31

4

- (1)  $\frac{7}{24}$       (2)  $\frac{2}{7}$       (3)  $\frac{14}{15}$   
 (4)  $\frac{5}{18}$       (5)  $\frac{5}{16}$       (6)  $\frac{3}{10}$   
 (7)  $\frac{2}{7}$       (8)  $\frac{11}{36}$       (9)  $1\frac{1}{6}$   
 (10)  $\frac{3}{4}$

解説

$$(4) 4\frac{1}{6} \div 15 = \frac{\overset{5}{\cancel{25}}}{6 \times \underset{3}{\cancel{15}}} = \frac{5}{18}$$

$$(8) 4\frac{7}{12} \div 15 = \frac{\overset{11}{\cancel{55}}}{12 \times \underset{3}{\cancel{15}}} = \frac{11}{36}$$

## 11 分数と分数のかけ算

P. 32

1

(1)  $\frac{3}{8}$       (2)  $\frac{4}{15}$       (3)  $\frac{5}{42}$

(4)  $\frac{35}{54}$       (5)  $\frac{5}{72}$       (6)  $\frac{20}{21}$

(7)  $1\frac{11}{24}$       (8)  $\frac{27}{28}$       (9)  $\frac{27}{32}$

(10)  $4\frac{3}{8}$

解説

(2)  $\frac{4}{5} \times \frac{1}{3} = \frac{4 \times 1}{5 \times 3} = \frac{4}{15}$

(7)  $\frac{7}{4} \times \frac{5}{6} = \frac{7 \times 5}{4 \times 6} = \frac{35}{24} = 1\frac{11}{24}$

P. 33

2

(1)  $\frac{3}{10}$       (2)  $\frac{2}{21}$       (3)  $\frac{3}{10}$

(4)  $\frac{5}{18}$       (5)  $\frac{7}{10}$       (6)  $\frac{1}{4}$

(7)  $\frac{3}{5}$       (8)  $\frac{1}{6}$       (9)  $1\frac{1}{5}$

(10)  $7\frac{1}{2}$

解説

(2)  $\frac{4}{7} \times \frac{1}{6} = \frac{4 \times 1}{7 \times 6} = \frac{2}{21}$

(8)  $\frac{5}{8} \times \frac{4}{15} = \frac{5 \times 4}{8 \times 15} = \frac{1}{6}$

3

(1)  $1\frac{1}{15}$       (2)  $1\frac{13}{20}$       (3)  $\frac{24}{35}$

(4)  $1\frac{1}{6}$       (5)  $1\frac{13}{32}$       (6)  $3\frac{8}{9}$

(7)  $4\frac{7}{12}$       (8)  $3\frac{1}{21}$       (9)  $6\frac{9}{16}$

(10)  $10\frac{1}{12}$

解説

(2)  $2\frac{3}{4} \times \frac{3}{5} = \frac{11}{4} \times \frac{3}{5} = \frac{33}{20} = 1\frac{13}{20}$

(7)  $2\frac{1}{2} \times 1\frac{5}{6} = \frac{5}{2} \times \frac{11}{6} = \frac{55}{12} = 4\frac{7}{12}$

P. 34

4

(1)  $1\frac{1}{2}$       (2)  $1\frac{1}{5}$       (3)  $\frac{5}{7}$

(4)  $1\frac{1}{10}$       (5) 6      (6) 4

(7)  $3\frac{2}{3}$       (8) 8      (9)  $3\frac{3}{4}$

(10)  $1\frac{1}{2}$

解説

(2)  $1\frac{3}{5} \times \frac{3}{4} = \frac{8}{5} \times \frac{3}{4} = \frac{\overset{2}{8} \times 3}{5 \times \underset{1}{4}} = \frac{6}{5} = 1\frac{1}{5}$

(10)  $1\frac{3}{7} \times 1\frac{1}{20} = \frac{10}{7} \times \frac{21}{20} = \frac{\overset{1}{10} \times \overset{3}{21}}{\underset{1}{7} \times \underset{2}{20}} = \frac{3}{2} = 1\frac{1}{2}$

## 12 分数と分数のわり算

P. 35

1

- (1)  $\frac{9}{10}$       (2)  $1\frac{1}{15}$       (3)  $1\frac{7}{18}$   
 (4)  $4\frac{1}{6}$       (5)  $\frac{15}{16}$       (6)  $\frac{35}{54}$   
 (7)  $\frac{35}{64}$       (8)  $1\frac{7}{20}$       (9)  $1\frac{11}{49}$   
 (10)  $1\frac{5}{72}$

解説

$$(2) \frac{4}{5} \div \frac{3}{4} = \frac{4}{5} \times \frac{4}{3} = \frac{16}{15} = 1\frac{1}{15}$$

$$(9) \frac{10}{7} \div \frac{7}{6} = \frac{10}{7} \times \frac{6}{7} = \frac{60}{49} = 1\frac{11}{49}$$

P. 36

2

- (1)  $\frac{4}{7}$       (2)  $\frac{9}{10}$       (3)  $\frac{6}{7}$   
 (4)  $\frac{2}{3}$       (5)  $1\frac{1}{2}$       (6)  $\frac{3}{4}$   
 (7)  $5\frac{1}{4}$       (8)  $1\frac{1}{2}$       (9)  $\frac{3}{4}$   
 (10)  $1\frac{1}{5}$

解説

$$(2) \frac{3}{4} \div \frac{5}{6} = \frac{3}{4} \times \frac{6}{5} = \frac{9}{10}$$

$$(10) \frac{9}{7} \div \frac{15}{14} = \frac{9}{7} \times \frac{14}{15} = \frac{6}{5} = 1\frac{1}{5}$$

3

- (1)  $1\frac{11}{24}$       (2)  $\frac{35}{36}$       (3)  $1\frac{21}{155}$   
 (4)  $2\frac{17}{64}$       (5)  $1\frac{61}{104}$       (6)  $1\frac{11}{15}$   
 (7)  $2\frac{33}{56}$       (8)  $1\frac{23}{40}$       (9)  $2\frac{48}{95}$   
 (10)  $1\frac{7}{20}$

解説

$$(3) 4\frac{2}{5} \div 3\frac{7}{8} = \frac{22}{5} \div \frac{31}{8}$$

$$= \frac{22}{5} \times \frac{8}{31} = \frac{176}{155} = 1\frac{21}{155}$$

P. 37

4

- (1)  $\frac{9}{14}$       (2)  $1\frac{7}{17}$       (3)  $2\frac{14}{51}$   
 (4)  $1\frac{9}{14}$       (5)  $1\frac{13}{22}$       (6)  $1\frac{1}{20}$   
 (7) 3      (8)  $2\frac{4}{5}$       (9)  $\frac{19}{33}$   
 (10)  $\frac{18}{19}$

解説

$$(9) 4\frac{2}{9} \div 7\frac{1}{3} = \frac{38}{9} \div \frac{22}{3}$$

$$= \frac{38}{9} \times \frac{3}{22} = \frac{19}{33}$$

### 13 分数と小数のかけ算とわり算

P. 38

1

- (1)  $\frac{7}{18}$       (2)  $\frac{8}{15}$       (3)  $\frac{6}{25}$   
 (4)  $\frac{1}{5}$       (5)  $\frac{1}{5}$       (6)  $\frac{2}{25}$   
 (7)  $\frac{9}{50}$       (8)  $\frac{1}{5}$       (9)  $\frac{4}{25}$   
 (10)  $\frac{9}{50}$

解説

$$(5) \quad 0.48 \times \frac{5}{12} = \frac{48}{100} \times \frac{5}{12} = \frac{1}{5}$$

$$(9) \quad \frac{5}{8} \times 0.256 = \frac{5}{8} \times \frac{256}{1000} = \frac{4}{25}$$

P. 39

2

- (1) 2      (2)  $6\frac{3}{10}$       (3)  $15\frac{3}{10}$   
 (4)  $1\frac{33}{100}$       (5)  $7\frac{1}{25}$       (6) 2  
 (7)  $13\frac{11}{25}$       (8)  $10\frac{2}{5}$       (9)  $13\frac{3}{4}$   
 (10) 5

解説

$$(4) \quad 2\frac{8}{15} \times 0.525 = \frac{38}{15} \times \frac{525}{1000} = \frac{133}{100} = 1\frac{33}{100}$$

$$(10) \quad 1.125 \times 4\frac{4}{9} = \frac{1125}{1000} \times \frac{40}{9} = 5$$

3

- (1)  $1\frac{1}{4}$       (2)  $\frac{5}{8}$       (3)  $\frac{5}{6}$   
 (4)  $\frac{5}{18}$       (5)  $4\frac{16}{21}$       (6)  $3\frac{1}{3}$   
 (7)  $1\frac{23}{27}$       (8)  $\frac{5}{6}$       (9) 10  
 (10)  $1\frac{13}{27}$

解説

$$(4) \quad \frac{7}{15} \div 1.68 = \frac{7}{15} \div \frac{168}{100} = \frac{7}{15} \times \frac{100}{168} = \frac{5}{18}$$

$$(6) \quad \frac{17}{10} \div 0.51 = \frac{17}{10} \div \frac{51}{100} = \frac{17}{10} \times \frac{100}{51} = \frac{10}{3} = 3\frac{1}{3}$$

P. 40

4

- (1)  $3\frac{1}{3}$       (2) 5      (3) 20  
 (4)  $1\frac{23}{27}$       (5)  $3\frac{1}{3}$       (6)  $1\frac{7}{18}$   
 (7)  $1\frac{7}{18}$       (8)  $\frac{25}{28}$       (9)  $13\frac{8}{9}$   
 (10)  $3\frac{17}{36}$

解説

$$(8) \quad 3\frac{6}{7} \div 4.32 = \frac{27}{7} \div \frac{432}{100} = \frac{27}{7} \times \frac{100}{432} = \frac{25}{28}$$