

ステップ1 基本

1

□にあてはまる数を求めなさい。

$$\begin{array}{r}
 (1) \quad \square \ 6 \ \square \\
 + \ 5 \ \square \ 8 \\
 \hline
 8 \ 4 \ 2
 \end{array}$$

$$\begin{array}{r}
 (2) \quad \quad \quad 3 \ \square \ 4 \\
 + \ \square \ 2 \ \square \\
 \hline
 \quad \quad \quad 9 \ 0 \ 2
 \end{array}$$

$$\begin{array}{r}
 (3) \quad \quad \quad 5 \ \square \ \square \ 5 \\
 + \ \square \ 4 \ 7 \ \square \\
 \hline
 \quad \quad \quad 9 \ 2 \ 1 \ 4
 \end{array}$$

$$\begin{array}{r}
 (4) \quad \quad \quad 7 \ \square \ 2 \ \square \\
 + \ \square \ 8 \ \square \ 6 \\
 \hline
 1 \ 7 \ 5 \ 4 \ 3
 \end{array}$$

$$\begin{array}{r}
 (5) \quad \square \ \square \ 8 \ 7 \ 3 \\
 + \ 6 \ 8 \ \square \ \square \ \square \\
 \hline
 8 \ 3 \ 2 \ 7 \ 0
 \end{array}$$

$$\begin{array}{r}
 (6) \quad \square \ 7 \ \square \ \square \ 8 \\
 + \ 6 \ \square \ 9 \ 6 \ \square \\
 \hline
 1 \ 5 \ 2 \ 1 \ 0 \ 3
 \end{array}$$

2

□にあてはまる数を求めなさい。

$$\begin{array}{r}
 \square \ 2 \ \square \\
 - \ 2 \ \square \ 7 \\
 \hline
 1 \ 8 \ 9
 \end{array}$$

(2)

$$\begin{array}{r}
 9 \ \square \ 2 \\
 - \ \square \ 7 \ \square \\
 \hline
 4 \ 2 \ 7
 \end{array}$$

$$\begin{array}{r}
 3 \ 4 \ \square \ \square \\
 - \ \square \ \square \ 8 \ 6 \\
 \hline
 1 \ 6 \ 1 \ 9
 \end{array}$$

(4)

$$\begin{array}{r}
 \square \ 3 \ 8 \ \square \\
 - \ 1 \ \square \ \square \ 6 \\
 \hline
 5 \ 9 \ 8 \ 6
 \end{array}$$

$$\begin{array}{r}
 2 \ 1 \ \square \ \square \ 3 \\
 - \ \square \ \square \ 8 \ 7 \ \square \\
 \hline
 8 \ 5 \ 8 \ 8
 \end{array}$$

(6)

$$\begin{array}{r}
 \square \ 9 \ \square \ \square \ \square \\
 - \ 2 \ \square \ 6 \ 6 \ 8 \\
 \hline
 1 \ 1 \ 5 \ 4 \ 6
 \end{array}$$

3

□にあてはまる数を求めなさい。

$$\begin{array}{r}
 \text{(1)} \quad \quad \quad 2 \ \square \\
 \times \quad \square \ 7 \\
 \hline
 1 \ \square \ 2 \\
 \square \ 8 \\
 \hline
 \square \ \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \text{(2)} \quad \quad \quad \square \ 4 \\
 \times \quad \quad 6 \ \square \\
 \hline
 \quad \square \ 3 \ \square \\
 \square \ \square \ \square \\
 \hline
 \square \ \square \ \square \ 8
 \end{array}$$

$$\begin{array}{r}
 \text{(3)} \quad \quad \square \ \square \ 6 \\
 \times \quad \quad 4 \ \square \\
 \hline
 \quad 5 \ \square \ \square \\
 \square \ \square \ 4 \\
 \hline
 \square \ \square \ 6 \ 8
 \end{array}$$

$$\begin{array}{r}
 \text{(4)} \quad \quad \quad 4 \ \square \ 3 \\
 \times \quad \quad \quad 6 \ \square \\
 \hline
 \quad 1 \ \square \ \square \ 2 \\
 \square \ \square \ 3 \ \square \\
 \hline
 \square \ \square \ 0 \ \square \ \square
 \end{array}$$

$$\begin{array}{r}
 \text{(5)} \quad \quad 3 \ \square \ \square \ 7 \\
 \times \quad \quad \quad 2 \ \square \\
 \hline
 \square \ 2 \ \square \ 6 \ \square \\
 \square \ \square \ \square \ \square \\
 \hline
 \square \ \square \ 2 \ 0 \ 9
 \end{array}$$

$$\begin{array}{r}
 \text{(6)} \quad \quad \quad 1 \ \square \ 2 \\
 \times \quad \square \ 4 \ \square \\
 \hline
 \quad 4 \ \square \ \square \\
 \square \ \square \ \square \\
 9 \ \square \ \square \\
 \hline
 \square \ \square \ \square \ 3 \ 6
 \end{array}$$

4 □にあてはまる数を求めなさい。

(1)

$$\begin{array}{r}
 4 \square \\
 1 \square \overline{) 6 \square \square} \\
 \underline{\square \square} \\
 2 \square \\
 \underline{1 \ 6} \\
 9
 \end{array}$$

(2)

$$\begin{array}{r}
 \square \square \\
 6 \square \overline{) 5 \square 4 9} \\
 \underline{\square \square \square} \\
 1 \square \square \\
 \underline{1 \ 2 \square} \\
 4 \ 5
 \end{array}$$

(3)

$$\begin{array}{r}
 2 \square \square \\
 \square \square \overline{) 9 \square \square 6} \\
 \underline{\square \ 2} \\
 2 \ 6 \square \\
 \underline{\square \ 5 \ 2} \\
 1 \ 5 \square \\
 \underline{\square \square \square} \\
 \square \square
 \end{array}$$

(4)

$$\begin{array}{r}
 \square \square \square \\
 4 \square \overline{) 5 \square 7 \square} \\
 \underline{4 \ 9} \\
 9 \square \\
 \underline{\square \square} \\
 \square \square \square \\
 \underline{\square \square \square} \\
 \square \ 2
 \end{array}$$

ステップ2 約数を考える問題

5 次の筆算について、あとの問いに答えなさい。

$$\begin{array}{r}
 7 \square \square \\
 \hline
 \square \square \overline{) 48 \square \square \square} \\
 \underline{ \square \square \square} \\
 \square \square \square \\
 \underline{260} \\
 \square \square \square \\
 \underline{390} \\
 7
 \end{array}$$

A

- (1) 割る数 (波線部分) をAとすると、260も390もAの () です。漢字2字
- (2) (1)より、Aは260と390の () です。漢字3文字
- (3) Aは () けたの整数で、割られる数の上2けたの () より大きい数です。
- (4) (2)(3)より、 $A = ()$ です。
- (5) □にあてはまる数を求めなさい。

6 □にあてはまる数を求めなさい。

(1)

$$\begin{array}{r}
 \square \square \\
 \square \square \overline{) 2015} \\
 \underline{\square \square \square} \\
 125 \\
 \underline{\square \square \square} \\
 20
 \end{array}$$

(2)

$$\begin{array}{r}
 \square \square \\
 \square \square \overline{) 3210} \\
 \underline{\square \square \square} \\
 15\square \\
 \underline{\square \square \square} \\
 14
 \end{array}$$

(3)

$$\begin{array}{r}
 \square \square \\
 \square \square \overline{) 9801} \\
 \underline{891} \\
 \square \square \square \\
 \underline{\square \square \square} \\
 0
 \end{array}$$

■ 解答 ■

$$\begin{array}{r} \boxed{1} \quad (1) \quad \begin{array}{r} \boxed{2} \ 6 \ \boxed{4} \\ + \ 5 \ \boxed{7} \ 8 \\ \hline 8 \ 4 \ 2 \end{array} \end{array}$$

$$(2) \quad \begin{array}{r} \quad \quad 3 \ \boxed{7} \ 4 \\ + \ \boxed{5} \ 2 \ \boxed{8} \\ \hline 9 \ 0 \ 2 \end{array}$$

$$(3) \quad \begin{array}{r} \quad \quad 5 \ \boxed{7} \ \boxed{3} \ 5 \\ + \ \boxed{3} \ 4 \ 7 \ \boxed{9} \\ \hline 9 \ 2 \ 1 \ 4 \end{array}$$

$$(4) \quad \begin{array}{r} \quad \quad 7 \ \boxed{7} \ 2 \ \boxed{7} \\ + \ \boxed{9} \ 8 \ \boxed{1} \ 6 \\ \hline 1 \ 7 \ 5 \ 4 \ 3 \end{array}$$

$$(5) \quad \begin{array}{r} \boxed{1} \ \boxed{4} \ 8 \ 7 \ 3 \\ + \ 6 \ 8 \ \boxed{3} \ \boxed{9} \ \boxed{7} \\ \hline 8 \ 3 \ 2 \ 7 \ 0 \end{array}$$

$$(6) \quad \begin{array}{r} \boxed{8} \ 7 \ \boxed{1} \ \boxed{3} \ 8 \\ + \ 6 \ \boxed{4} \ 9 \ 6 \ \boxed{5} \\ \hline 1 \ 5 \ 2 \ 1 \ 0 \ 3 \end{array}$$

$$\boxed{2} \quad (1) \quad \begin{array}{r} \boxed{4} \ 2 \ \boxed{6} \\ - \ 2 \ \boxed{3} \ 7 \\ \hline 1 \ 8 \ 9 \end{array}$$

$$(2) \quad \begin{array}{r} \quad \quad 9 \ \boxed{0} \ 2 \\ - \ \boxed{4} \ 7 \ \boxed{5} \\ \hline 4 \ 2 \ 7 \end{array}$$

$$(3) \quad \begin{array}{r} \quad \quad 3 \ 4 \ \boxed{0} \ \boxed{5} \\ - \ \boxed{1} \ \boxed{7} \ 8 \ 6 \\ \hline 1 \ 6 \ 1 \ 9 \end{array}$$

$$(4) \quad \begin{array}{r} \boxed{7} \ 3 \ 8 \ \boxed{2} \\ - \ 1 \ \boxed{3} \ \boxed{9} \ 6 \\ \hline 5 \ 9 \ 8 \ 6 \end{array}$$

$$(5) \quad \begin{array}{r} \quad \quad 2 \ 1 \ \boxed{4} \ \boxed{6} \ 3 \\ - \ \boxed{1} \ \boxed{2} \ 8 \ 7 \ \boxed{5} \\ \hline 8 \ 5 \ 8 \ 8 \end{array}$$

$$(6) \quad \begin{array}{r} \boxed{3} \ 9 \ \boxed{2} \ \boxed{1} \ \boxed{4} \\ - \ 2 \ \boxed{7} \ 6 \ 6 \ 8 \\ \hline 1 \ 1 \ 5 \ 4 \ 6 \end{array}$$

$$\boxed{3} \quad (1) \quad \begin{array}{r} \quad \quad 2 \ \boxed{6} \\ \times \ \boxed{3} \ 7 \\ \hline 1 \ \boxed{8} \ 2 \\ \boxed{7} \ 8 \\ \hline \boxed{9} \ \boxed{6} \ \boxed{2} \end{array}$$

$$(2) \quad \begin{array}{r} \quad \quad \boxed{3} \ 4 \\ \times \quad \quad 6 \ \boxed{7} \\ \hline \quad \quad \boxed{2} \ 3 \ \boxed{8} \\ \boxed{2} \ 0 \ \boxed{4} \\ \hline \boxed{2} \ \boxed{2} \ \boxed{7} \ 8 \end{array}$$

$$(3) \quad \begin{array}{r} \quad \quad \boxed{1} \ \boxed{7} \ 6 \\ \times \quad \quad 4 \ \boxed{3} \\ \hline \quad \quad 5 \ \boxed{2} \ \boxed{8} \\ \boxed{7} \ 0 \ 4 \\ \hline \boxed{7} \ \boxed{5} \ 6 \ 8 \end{array}$$

$$(4) \quad \begin{array}{r} \quad \quad 4 \ \boxed{2} \ 3 \\ \times \quad \quad 6 \ \boxed{4} \\ \hline \quad \quad 1 \ \boxed{6} \ \boxed{9} \ 2 \\ \boxed{2} \ \boxed{5} \ 3 \ \boxed{8} \\ \hline \boxed{2} \ \boxed{7} \ 0 \ \boxed{7} \ \boxed{2} \end{array}$$

$$(5) \quad \begin{array}{r} \quad \quad 3 \ \boxed{2} \ \boxed{6} \ 7 \\ \times \quad \quad 2 \ \boxed{7} \\ \hline \quad \quad \boxed{2} \ 2 \ \boxed{8} \ 6 \ \boxed{9} \\ \boxed{6} \ \boxed{5} \ \boxed{3} \ \boxed{4} \\ \hline \boxed{8} \ \boxed{8} \ 2 \ 0 \ 9 \end{array}$$

$$(6) \quad \begin{array}{r} \quad \quad 1 \ \boxed{5} \ 2 \\ \times \ \boxed{6} \ 4 \ \boxed{3} \\ \hline \quad \quad 4 \ \boxed{5} \ \boxed{6} \\ \boxed{6} \ 0 \ \boxed{8} \\ \hline 9 \ \boxed{1} \ \boxed{2} \\ \hline \boxed{9} \ \boxed{7} \ \boxed{7} \ 3 \ 6 \end{array}$$

4 (1)

$$\begin{array}{r}
 \\
 \\
 \\
 \hline
 \\
 \\
 \hline

 \end{array}$$

(2)

$$\begin{array}{r}
 \\
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 \hline
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 \hline

 \end{array}$$

(3)

$$\begin{array}{r}
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 \hline
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 \hline

 \end{array}$$

(4)

$$\begin{array}{r}
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 \hline
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 \hline
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 \\
 \hline

 \end{array}$$

5

(1) 倍数 (2) 公約数 (3) 2、48 (4) 65

(5)

$$\begin{array}{r}
 \\
 \\
 \\
 \hline
 \\
 \\
 \hline
 \\
 \\
 \hline

 \end{array}$$

6

(1)

$$\begin{array}{r}
 \\
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 \\
 \hline
 \\
 \\
 \hline

 \end{array}$$

(2)

$$\begin{array}{r}
 \\
 \\
 \\
 \hline
 \\
 \\
 \hline

 \end{array}$$

(3)

$$\begin{array}{r}
 \\
 \\
 \\
 \hline
 \\
 \\
 \hline

 \end{array}$$

■ 解説 ■

6 (1)

$$\begin{array}{r}
 \square \square \\
 \square \square \overline{) 2015} \\
 \underline{189} \\
 125 \\
 \underline{105} \\
 20
 \end{array}
 \rightarrow
 \begin{array}{r}
 \square \square \\
 \square \square \overline{) 2015} \\
 \underline{189} \\
 125 \\
 \underline{105} \\
 20
 \end{array}$$

割る数は189と105の公約数

→最大公約数21の約数

割る数は、2けたの整数

→21

(2)

$$\begin{array}{r}
 \square \square \\
 \square \square \overline{) 3210} \\
 \underline{306} \\
 150 \\
 \underline{136} \\
 14
 \end{array}
 \rightarrow
 \begin{array}{r}
 \square \square \\
 \square \square \overline{) 3210} \\
 \underline{306} \\
 150 \\
 \underline{136} \\
 14
 \end{array}$$

割る数は306と136の公約数

→最大公約数34の約数

割る数は2けたの整数

→34か17

→割る数は、32(3210の上2けた)より大きい数

→34

(3)

$$\begin{array}{r}
 \square \square \\
 \square \square \overline{) 9801} \\
 891 \\
 \underline{891} \\
 0
 \end{array}
 \rightarrow
 \begin{array}{r}
 \square \square \\
 \square \square \overline{) 9801} \\
 891 \\
 \underline{891} \\
 0
 \end{array}$$

割る数は、891の約数

→ $891 = 9 \times 9 \times 11$

割る数は2けたの整数

→81か99

割る数は、98(9801の上2けた)より大きい数

→99