

例) 例にならって、①と①^{あた}の値を求めなさい。

例)

$$\begin{array}{r}
 \textcircled{3} + 100 = \boxed{4} \\
 \times 2 \quad \left\{ \begin{array}{l} \textcircled{3} + 100 = \boxed{4} \\ \textcircled{2} + 200 = \boxed{3} \end{array} \right. \\
 \hline
 \textcircled{6} + 200 = \boxed{8} \\
 \times 3 \quad \left\{ \begin{array}{l} \textcircled{6} + 200 = \boxed{8} \\ \textcircled{6} + 600 = \boxed{9} \end{array} \right. \\
 \hline
 \textcircled{6} + 600 = \boxed{9} \\
 \hline
 400 = \boxed{1} \\
 \textcircled{1} = \underline{500}
 \end{array}$$

2本の式をそれぞれ何倍かして、片方の数を最小公倍数にそろえます。

< 2本の式を何倍かして、片方の数を最小公倍数にそろえる >

$$(1) \quad \left\{ \begin{array}{l} \textcircled{2} + 100 = \boxed{5} \\ \textcircled{3} + 200 = \boxed{8} \end{array} \right.$$

$$(2) \quad \left\{ \begin{array}{l} \textcircled{4} + 160 = \boxed{6} \\ \textcircled{3} + 200 = \boxed{5} \end{array} \right.$$

例)

$$\begin{array}{l} \left\{ \begin{array}{l} \textcircled{6} - 800 = \boxed{8} \\ \textcircled{6} - 600 = \boxed{9} \end{array} \right. \\ \hline 200 = \boxed{1} \\ \textcircled{1} = \underline{150} \end{array}$$

$\boxed{8}$ と $\boxed{9}$ の差は $\boxed{1}$ 、

-800 と -600 の差は 200 となります。

<マイナスどうしの差をとる>

(3)
$$\left\{ \begin{array}{l} \textcircled{6} - 840 = \boxed{12} \\ \textcircled{6} - 1000 = \boxed{10} \end{array} \right.$$

(4)
$$\left\{ \begin{array}{l} \textcircled{12} - 720 = \boxed{18} \\ \textcircled{12} - 400 = \boxed{20} \end{array} \right.$$

例)
$$\left\{ \begin{array}{l} \textcircled{10} - 300 = \boxed{6} \\ \textcircled{12} - 600 = \boxed{6} \end{array} \right.$$

$$\textcircled{2} = 300$$

$$\textcircled{1} = \underline{150}$$

$$\boxed{1} = \underline{200}$$

⑩と⑫の差は②、

-300 と -600 の差は 300 となります。

< マイナスどうしの差をとる >

(5)
$$\left\{ \begin{array}{l} \textcircled{8} - 720 = \boxed{6} \\ \textcircled{15} - 1770 = \boxed{6} \end{array} \right.$$

(6)
$$\left\{ \begin{array}{l} \textcircled{20} - 1560 = \boxed{12} \\ \textcircled{18} - 1260 = \boxed{12} \end{array} \right.$$

例)

$$\begin{array}{r}
 \textcircled{3} - 400 = \boxed{4} \\
 \times 2 \quad \left\{ \begin{array}{l} \textcircled{2} - 200 = \boxed{3} \\ \textcircled{6} - 800 = \boxed{8} \\ \textcircled{6} - 600 = \boxed{9} \end{array} \right. \\
 \hline
 \textcircled{6} - 800 = \boxed{8} \\
 \textcircled{6} - 600 = \boxed{9} \\
 \hline
 \underline{200} = \boxed{1} \\
 \textcircled{1} = 150
 \end{array}$$

2本の式をそれぞれ何倍かして、片方の数を
最小公倍数にそろえます。

-800と-600の差は200となります。

<マイナスどうしの差をとる>

$$(7) \quad \left\{ \begin{array}{l} \textcircled{2} - 280 = \boxed{4} \\ \textcircled{3} - 500 = \boxed{5} \end{array} \right.$$

$$(8) \quad \left\{ \begin{array}{l} \textcircled{4} - 240 = \boxed{6} \\ \textcircled{3} - 100 = \boxed{5} \end{array} \right.$$

例)

$$\begin{array}{r}
 \left\{ \begin{array}{l}
 \textcircled{5} - 150 = \boxed{3} \\
 \textcircled{4} - 200 = \boxed{2}
 \end{array} \right. \\
 \hline
 \left\{ \begin{array}{l}
 \textcircled{10} - 300 = \boxed{6} \\
 \textcircled{12} - 600 = \boxed{6}
 \end{array} \right.
 \end{array}$$

$\times 3$
 $\times 2$

$$\textcircled{2} = 300$$

$$\textcircled{1} = \underline{150}$$

$$\boxed{1} = \underline{200}$$

2本の式をそれぞれ何倍かして、片方の数を
最小公倍数にそろえます。

-300 と -600 の差は 300 となります。

< マイナスどうしの差をとる >

$$(9) \quad \left\{ \begin{array}{l}
 \textcircled{4} - 360 = \boxed{3} \\
 \textcircled{5} - 590 = \boxed{2}
 \end{array} \right.$$

$$(10) \quad \left\{ \begin{array}{l}
 \textcircled{5} - 390 = \boxed{3} \\
 \textcircled{6} - 420 = \boxed{4}
 \end{array} \right.$$

例)
$$\left\{ \begin{array}{l} \textcircled{6} - 400 = \boxed{8} \\ \textcircled{6} + 300 = \boxed{15} \end{array} \right.$$

注意!

$$\begin{array}{r} 700 = \boxed{7} \\ \underline{100} = \boxed{1} \\ \textcircled{1} = \underline{200} \end{array}$$

マイナスとプラスの差をとるときは、

注意が必要です。

$\boxed{8}$ と $\boxed{15}$ の差は $\boxed{7}$ 、

-400 と $+300$ の差は 700 となります。

<マイナスとプラスの差をとる>

(11)
$$\left\{ \begin{array}{l} \textcircled{6} + 300 = \boxed{18} \\ \textcircled{6} - 500 = \boxed{10} \end{array} \right.$$

(12)
$$\left\{ \begin{array}{l} \textcircled{12} - 60 = \boxed{18} \\ \textcircled{12} + 120 = \boxed{20} \end{array} \right.$$

例)
$$\begin{cases} \textcircled{15} - 300 = \boxed{6} \\ \textcircled{8} + 400 = \boxed{6} \end{cases}$$

$$\textcircled{7} = 700$$

$$\textcircled{1} = 100$$

$$\boxed{1} = 200$$

注意!

マイナスとプラスの差をとるときは、

注意が必要です。

$\boxed{8}$ と $\boxed{15}$ の差は $\boxed{7}$ 、

-300 と $+400$ の差は 700 となります。

<マイナスとプラスの差をとる>

(13)
$$\begin{cases} \textcircled{8} + 240 = \boxed{6} \\ \textcircled{15} - 600 = \boxed{6} \end{cases}$$

(14)
$$\begin{cases} \textcircled{20} - 200 = \boxed{12} \\ \textcircled{18} + 60 = \boxed{12} \end{cases}$$

例)

$$\begin{array}{r} \textcircled{3} - 200 = \boxed{4} \\ \times 2 \\ \hline \textcircled{2} + 100 = \boxed{3} \\ \times 3 \\ \hline \textcircled{6} - 400 = \boxed{8} \\ \textcircled{6} + 300 = \boxed{15} \\ \hline \end{array}$$

注意!

$$\begin{array}{r} 700 = \boxed{7} \\ 100 = \boxed{1} \\ \textcircled{1} = \underline{200} \end{array}$$

2本の式をそれぞれ何倍かして、片方の数を
最小公倍数にそろえます。

-400 と +300 の差は 700 となります。

< マイナスとプラスの差をとる >

$$(15) \quad \begin{cases} \textcircled{2} + 100 = \boxed{6} \\ \textcircled{3} - 250 = \boxed{5} \end{cases}$$

$$(16) \quad \begin{cases} \textcircled{4} - 20 = \boxed{6} \\ \textcircled{3} + 50 = \boxed{5} \end{cases}$$

例)

$$\begin{array}{l} \left\{ \begin{array}{l} \textcircled{5} - 100 = \boxed{2} \\ \textcircled{4} + 200 = \boxed{3} \end{array} \right. \\ \hline \textcircled{15} - 300 = \boxed{6} \\ \textcircled{8} + 400 = \boxed{6} \\ \hline \end{array}$$

$\times 3$
 $\times 2$

$$\textcircled{7} = 700$$

$$\textcircled{1} = 100$$

$$\boxed{1} = 200$$

注意!

2本の式をそれぞれ何倍かして、片方の数を
最小公倍数にそろえます。

-300 と +400 の差は 700 となります。

< マイナスとプラスの差をとる >

$$(17) \quad \left\{ \begin{array}{l} \textcircled{4} + 120 = \boxed{3} \\ \textcircled{5} - 200 = \boxed{2} \end{array} \right.$$

$$(18) \quad \left\{ \begin{array}{l} \textcircled{5} - 50 = \boxed{3} \\ \textcircled{6} + 20 = \boxed{4} \end{array} \right.$$

2 ①と①を利用して、次の問いを解きなさい。

(1) 兄と弟の所持金の比は4 : 3でしたが、兄が2400円使い、弟が1000円使ったので、所持金の比は6 : 5になりました。兄ははじめいくら持っていましたか。

(2) 兄と弟の所持金の比は4 : 3でしたが、兄が200円使い、弟が500円おこづかいをもらったので、所持金の比は6 : 5になりました。兄ははじめいくら持っていましたか。

(解答)

$$\begin{array}{l} \text{1} \quad (1) \quad \text{②} + 100 = \boxed{5} \\ \text{③} + 200 = \boxed{8} \\ \hline \text{⑥} + 300 = \boxed{15} \\ \text{⑥} + 400 = \boxed{16} \\ \hline \underline{100} = \boxed{1} \\ \text{①} = \underline{200} \end{array}$$

$$\begin{array}{l} (2) \quad \text{④} + 160 = \boxed{6} \\ \text{③} + 200 = \boxed{5} \\ \hline \text{⑫} + 480 = \boxed{18} \\ \text{⑫} + 800 = \boxed{20} \\ \hline \underline{320} = \boxed{2} \\ \underline{160} = \boxed{1} \\ \text{①} = \underline{200} \end{array}$$

$$\begin{array}{l} (3) \quad \text{⑥} - 840 = \boxed{12} \\ \text{⑥} - 1000 = \boxed{10} \\ \hline \underline{160} = \boxed{2} \\ \underline{80} = \boxed{1} \\ \text{①} = \underline{300} \end{array}$$

$$\begin{array}{l} (4) \quad \text{⑫} - 720 = \boxed{18} \\ \text{⑫} - 400 = \boxed{20} \\ \hline \underline{320} = \boxed{2} \\ \underline{160} = \boxed{1} \\ \text{①} = \underline{300} \end{array}$$

$$\begin{array}{l} (5) \quad \text{⑧} - 720 = \boxed{6} \\ \text{⑮} - 1770 = \boxed{6} \\ \hline \text{⑦} = 1050 \\ \text{①} = \underline{150} \\ \text{1} = \underline{80} \end{array}$$

$$\begin{array}{l} (6) \quad \text{⑳} - 1560 = \boxed{12} \\ \text{⑱} - 1260 = \boxed{12} \\ \hline \text{②} = 300 \\ \text{①} = \underline{150} \\ \text{1} = \underline{120} \end{array}$$

$$\begin{array}{l} (7) \quad \text{②} - 280 = \boxed{4} \\ \text{③} - 500 = \boxed{5} \\ \hline \text{⑥} - 840 = \boxed{12} \\ \text{⑥} - 1000 = \boxed{10} \\ \hline \underline{160} = \boxed{2} \\ \underline{80} = \boxed{1} \\ \text{①} = \underline{300} \end{array}$$

$$\begin{array}{l} (8) \quad \text{④} - 240 = \boxed{6} \\ \text{③} - 100 = \boxed{5} \\ \hline \text{⑫} - 720 = \boxed{18} \\ \text{⑫} - 400 = \boxed{20} \\ \hline \underline{320} = \boxed{2} \\ \underline{160} = \boxed{1} \\ \text{①} = \underline{300} \end{array}$$

$$\begin{array}{l} (9) \quad \text{④} - 360 = \boxed{3} \\ \text{⑤} - 590 = \boxed{2} \\ \hline \text{⑧} - 720 = \boxed{6} \\ \text{⑮} - 1770 = \boxed{6} \\ \hline \text{⑦} = 1050 \\ \text{①} = \underline{150} \\ \text{1} = \underline{80} \end{array}$$

$$\begin{array}{l} (10) \quad \text{⑤} - 390 = \boxed{3} \\ \text{⑥} - 420 = \boxed{4} \\ \hline \text{⑳} - 1560 = \boxed{12} \\ \text{⑱} - 1260 = \boxed{12} \\ \hline \text{②} = 300 \\ \text{①} = \underline{150} \\ \text{1} = \underline{120} \end{array}$$

$$\begin{array}{l} (11) \quad \text{⑥} + 300 = \boxed{18} \\ \text{⑥} - 500 = \boxed{10} \\ \hline \underline{800} = \boxed{8} \\ \underline{100} = \boxed{1} \\ \text{①} = \underline{250} \end{array}$$

$$\begin{array}{l} (12) \quad \text{⑫} - 60 = \boxed{18} \\ \text{⑫} + 120 = \boxed{20} \\ \hline \underline{180} = \boxed{2} \\ \underline{90} = \boxed{1} \\ \text{①} = \underline{140} \end{array}$$

$$\begin{array}{r}
 (13) \quad \textcircled{8} + 240 = \boxed{6} \\
 \textcircled{15} - 600 = \boxed{6} \\
 \hline
 \textcircled{7} = 840 \\
 \textcircled{1} = 120 \\
 \boxed{1} = 200
 \end{array}$$

$$\begin{array}{r}
 (14) \quad \textcircled{20} - 200 = \boxed{12} \\
 \textcircled{18} + 60 = \boxed{12} \\
 \hline
 \textcircled{2} = 260 \\
 \textcircled{1} = 130 \\
 \boxed{1} = 200
 \end{array}$$

$$\begin{array}{r}
 (15) \quad \textcircled{2} + 100 = \boxed{6} \\
 \textcircled{3} - 250 = \boxed{5} \\
 \hline
 \textcircled{6} + 300 = \boxed{18} \\
 \textcircled{6} - 500 = \boxed{10} \\
 \hline
 800 = \boxed{8} \\
 100 = \boxed{1} \\
 \textcircled{1} = 250
 \end{array}$$

$$\begin{array}{r}
 (16) \quad \textcircled{4} - 20 = \boxed{6} \\
 \textcircled{3} + 50 = \boxed{5} \\
 \hline
 \textcircled{12} - 60 = \boxed{18} \\
 \textcircled{12} + 200 = \boxed{20} \\
 \hline
 260 = \boxed{2} \\
 130 = \boxed{1} \\
 \textcircled{1} = 200
 \end{array}$$

$$\begin{array}{r}
 (17) \quad \textcircled{4} + 120 = \boxed{3} \\
 \textcircled{5} - 200 = \boxed{2} \\
 \hline
 \textcircled{8} + 240 = \boxed{6} \\
 \textcircled{15} - 600 = \boxed{6} \\
 \hline
 \textcircled{7} = 840 \\
 \textcircled{1} = 120 \\
 \boxed{1} = 200
 \end{array}$$

$$\begin{array}{r}
 (18) \quad \textcircled{5} - 50 = \boxed{3} \\
 \textcircled{6} + 20 = \boxed{4} \\
 \hline
 \textcircled{20} - 200 = \boxed{12} \\
 \textcircled{18} + 60 = \boxed{12} \\
 \hline
 \textcircled{2} = 260 \\
 \textcircled{1} = 130 \\
 \boxed{1} = 200
 \end{array}$$

2 (13) はじめの兄の所持金を④、弟を③とおくと、

$$\begin{array}{r}
 \textcircled{4} - 2400 = \boxed{6} \\
 \textcircled{3} - 1000 = \boxed{5} \\
 \hline
 \textcircled{12} - 7200 = \boxed{18} \\
 \textcircled{12} - 4000 = \boxed{20} \\
 \hline
 3200 = \boxed{2} \\
 1600 = \boxed{1} \\
 \textcircled{1} = 3000 \\
 \textcircled{4} = 12000(\text{円}) \dots \text{兄}
 \end{array}$$

(14) はじめの兄の所持金を④、弟を③とおくと、

$$\begin{array}{r}
 \textcircled{4} - 200 = \boxed{6} \\
 \textcircled{3} + 500 = \boxed{5} \\
 \hline
 \textcircled{12} - 600 = \boxed{18} \\
 \textcircled{12} + 2000 = \boxed{20} \\
 \hline
 2600 = \boxed{2} \\
 1300 = \boxed{1} \\
 \textcircled{1} = 2000 \\
 \textcircled{4} = 8000(\text{円}) \dots \text{兄}
 \end{array}$$