

例) 例にならって、①と①の<sup>あたり</sup>値を求めなさい。

例)

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

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 >

$$(1) \begin{cases} \textcircled{2} + 100 = \boxed{5} \\ \textcircled{3} + 200 = \boxed{8} \end{cases}$$

$$(2) \begin{cases} \textcircled{4} + 160 = \boxed{6} \\ \textcircled{3} + 200 = \boxed{5} \end{cases}$$

例)

$$\begin{array}{l} \left\{ \begin{array}{l} \textcircled{6} - 800 = \boxed{8} \\ \textcircled{6} - 600 = \boxed{9} \end{array} \right. \\ \hline \underline{200} = \boxed{1} \\ \boxed{8} = 1600 \\ \textcircled{6} = 2400 \\ \textcircled{1} = \underline{400} \end{array}$$

$\boxed{8}$ 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 >

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

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

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)

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

$$\textcircled{2} = 300$$

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

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

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

注意!

$$\begin{aligned} 700 &= \boxed{7} \\ \underline{100} &= \boxed{1} \\ \textcircled{1} &= \underline{\underline{200}} \end{aligned}$$

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

<マイナスとプラスの差をとる>

(11) 
$$\begin{cases} \textcircled{6} + 300 = \boxed{18} \\ \textcircled{6} - 500 = \boxed{10} \end{cases}$$

(12) 
$$\begin{cases} \textcircled{12} - 60 = \boxed{18} \\ \textcircled{12} + 120 = \boxed{20} \end{cases}$$

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

<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)

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

注意!

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

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 >

$$(15) \quad \left\{ \begin{array}{l} \textcircled{2} + 100 = \boxed{6} \\ \textcircled{3} - 250 = \boxed{5} \end{array} \right.$$

$$(16) \quad \left\{ \begin{array}{l} \textcircled{4} - 20 = \boxed{6} \\ \textcircled{3} + 50 = \boxed{5} \end{array} \right.$$

例)

$$\begin{cases} \textcircled{5} - 100 = \boxed{2} \\ \textcircled{4} + 200 = \boxed{3} \end{cases} \times 3$$


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$$\begin{cases} \textcircled{15} - 300 = \boxed{6} \\ \textcircled{8} + 400 = \boxed{6} \end{cases} \times 2$$

$$\textcircled{7} = 700$$

$$\textcircled{1} = 100$$

$$\boxed{1} = 200$$

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 >

$$(17) \begin{cases} \textcircled{4} + 120 = \boxed{3} \\ \textcircled{5} - 200 = \boxed{2} \end{cases}$$

$$(18) \begin{cases} \textcircled{5} - 50 = \boxed{3} \\ \textcircled{6} + 20 = \boxed{4} \end{cases}$$

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 ■

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2 (1) はじめの兄の所持金を④、弟を③とおくと、

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

(2) はじめの兄の所持金を④、弟を③とおくと、

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