

算数

第3回

問題解説

問題の構成

① … 計算問題 2 題

各 5 点

② … 一行題(特殊算)

5 点 × 6 問
6 点 × 2 問

③ }
④ } … 大問(図形・関数等)
⑤ }

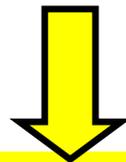
各 6 点

記述式問題 … 3 問

2

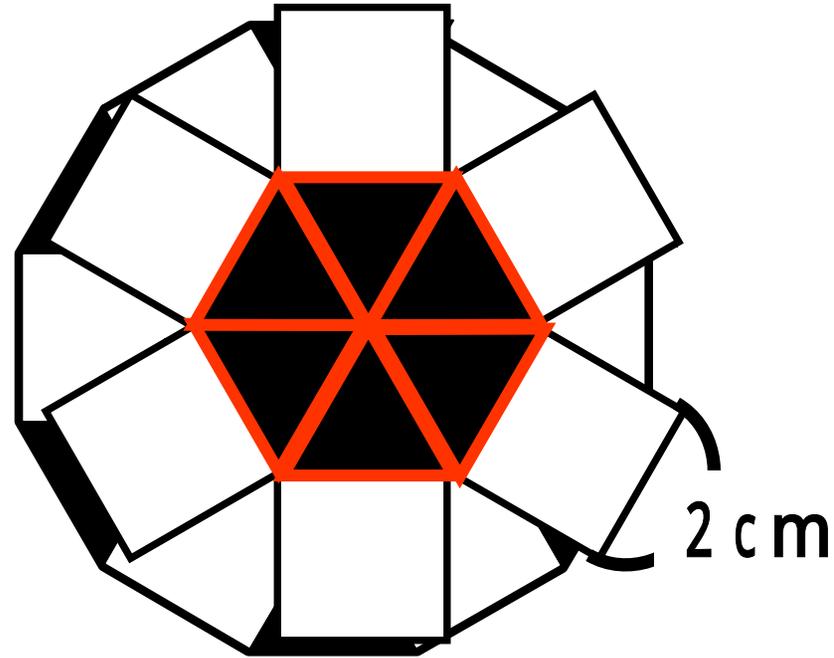
1行問題

- (1) 数の性質
- (2) 割合
- (3) 周期算
- (4) 図形の性質
- (5) 相似な図形
- (6) 比
- (7) 図形の面積
- (8) 場合の数



各項目の基本事項が
定着しているかを確認

2 (7)



$$2 \times 2 \times 6 = 24 (\text{cm}^2)$$

2

(8)

1 9 5

1 9 6

1 9 7

1 9 8

2 0 1

2 0 3

2 0 4

~~1~~, 2, 3, 4, ~~5~~, 6, 7, 8, ~~9~~, 0

7 (個)

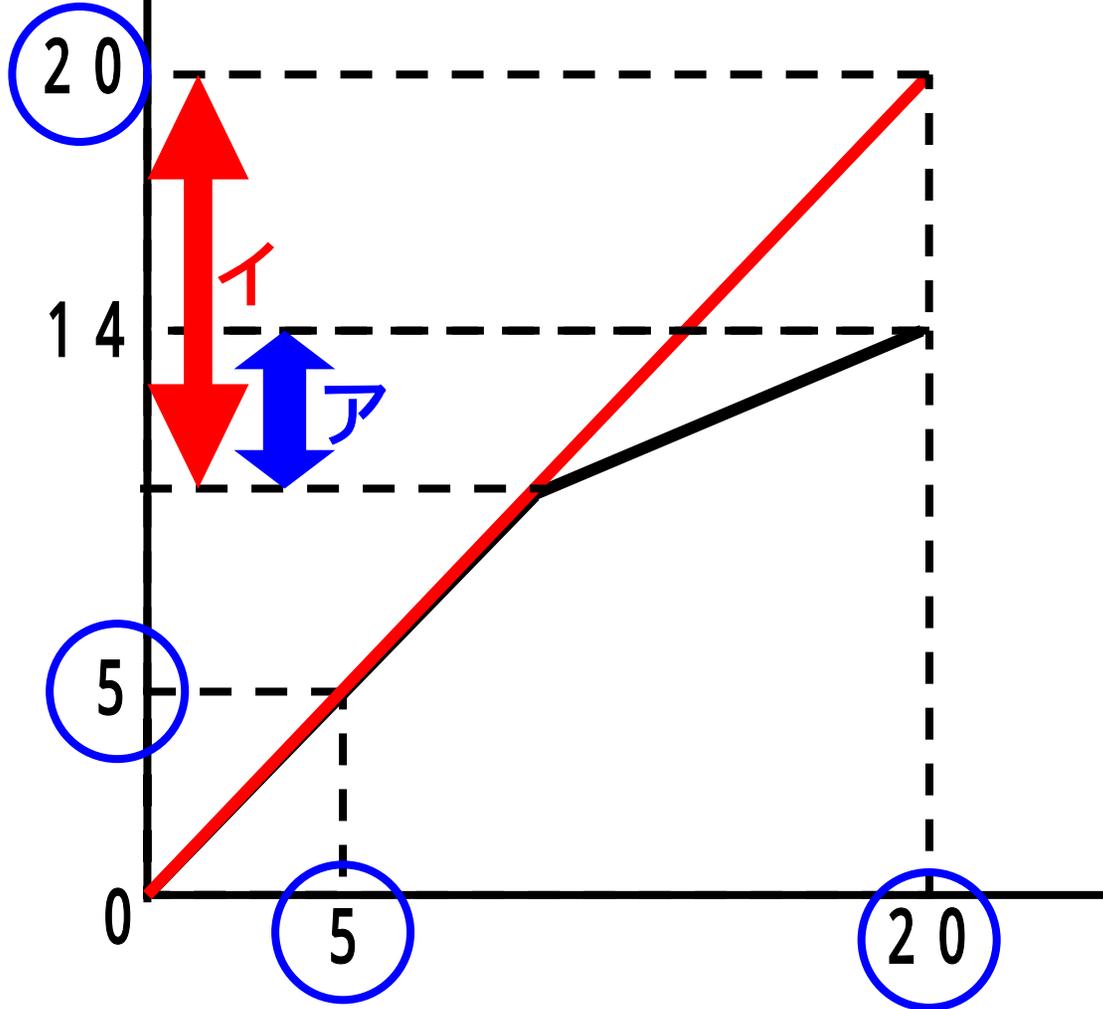
7 (個) ずつ

$$7 \times 7 = 49 \text{ (個)}$$

7 (個)

3 (1)

道のり
(km)

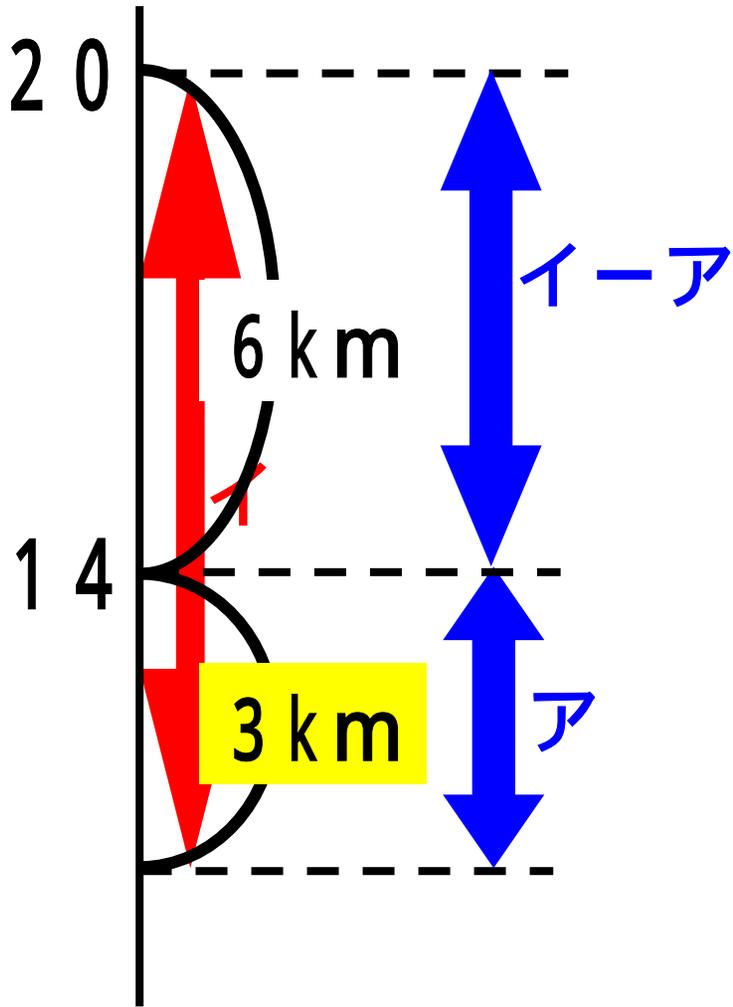
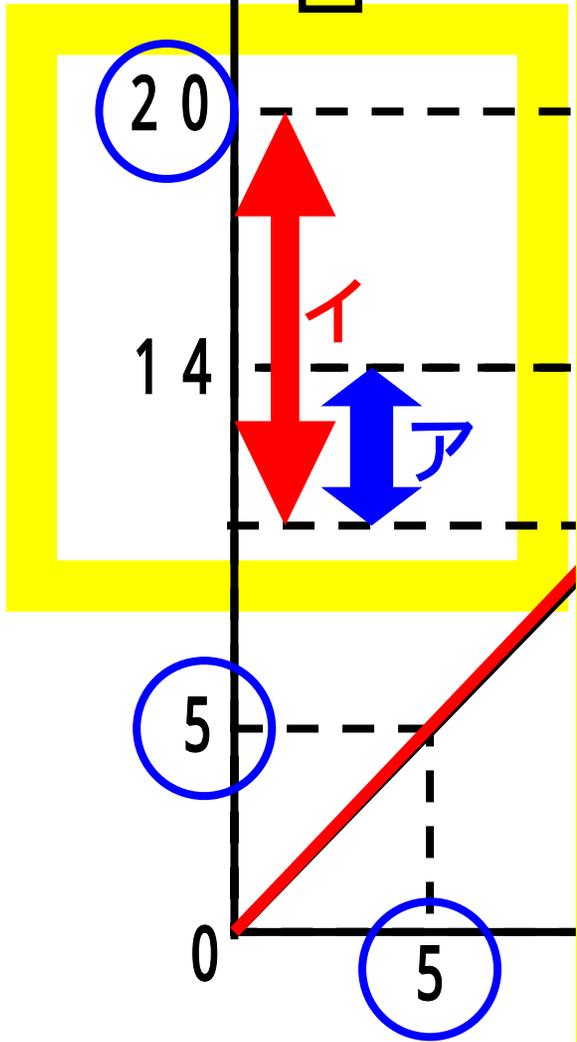
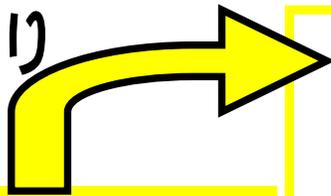


時間
(分)

3

(1)

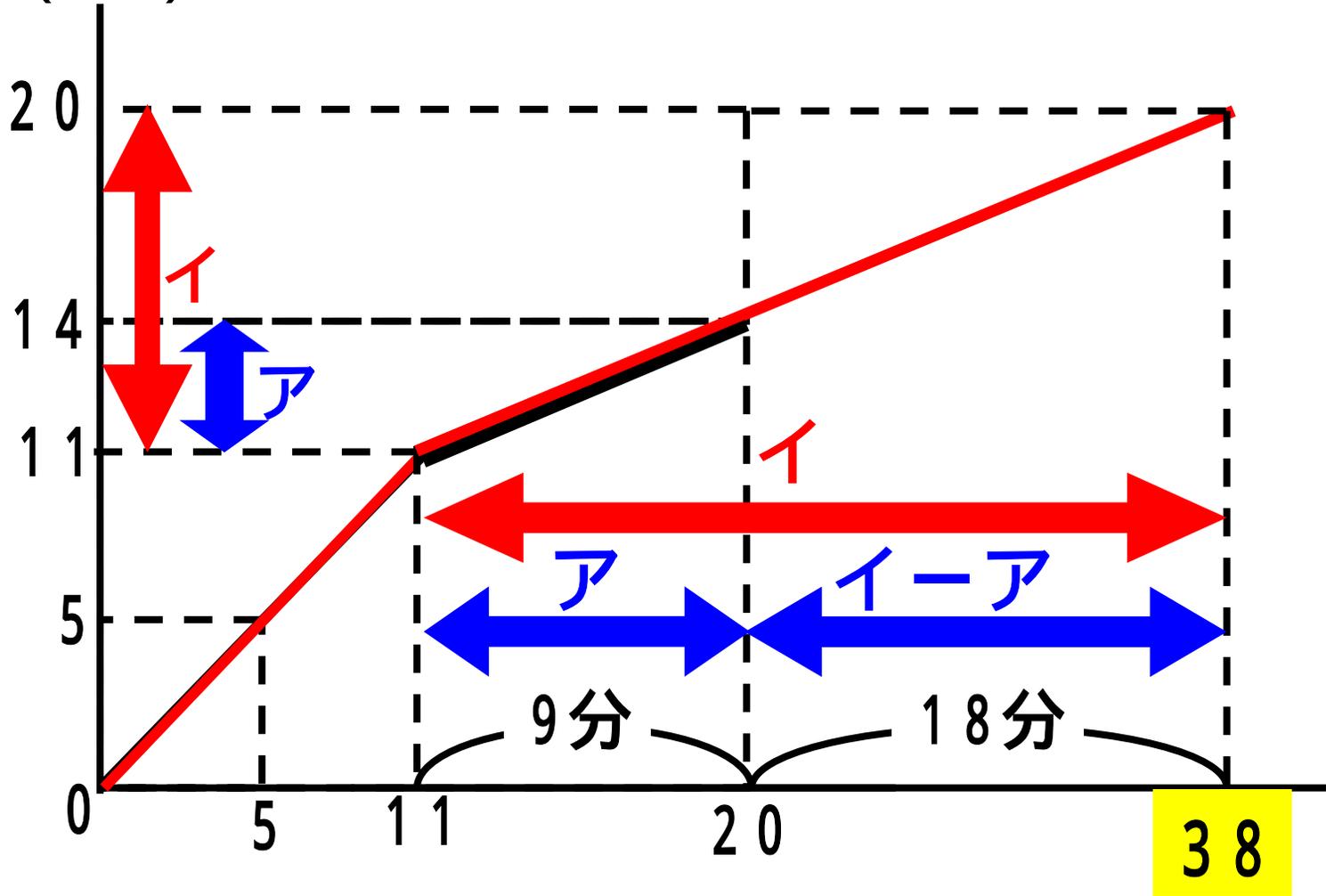
道のり
(km)



3

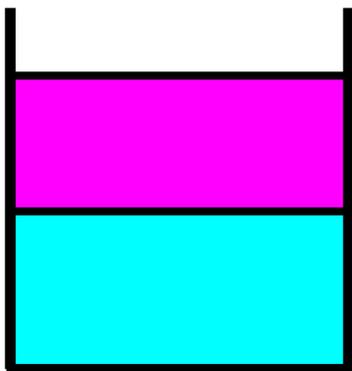
(2)

道のり
(km)



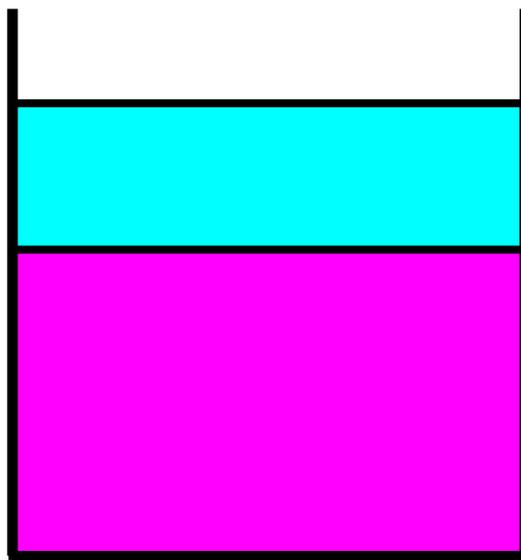
時間
(分)

4 (1)



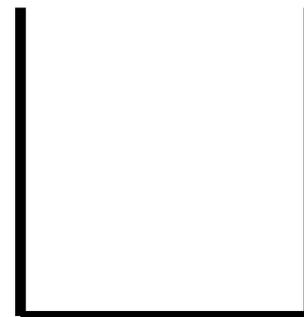
容器 A

4 %
1 8 0 g
+
1 0 %
1 2 0 g



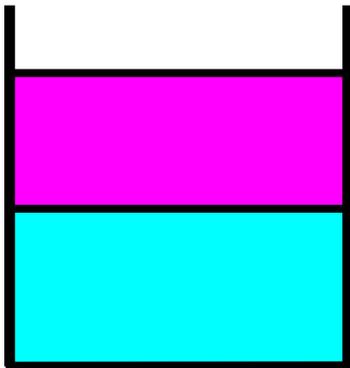
容器 B

1 0 %
4 8 0 g
+
4 %
1 2 0 g



容器 C

4 (1)



容器A

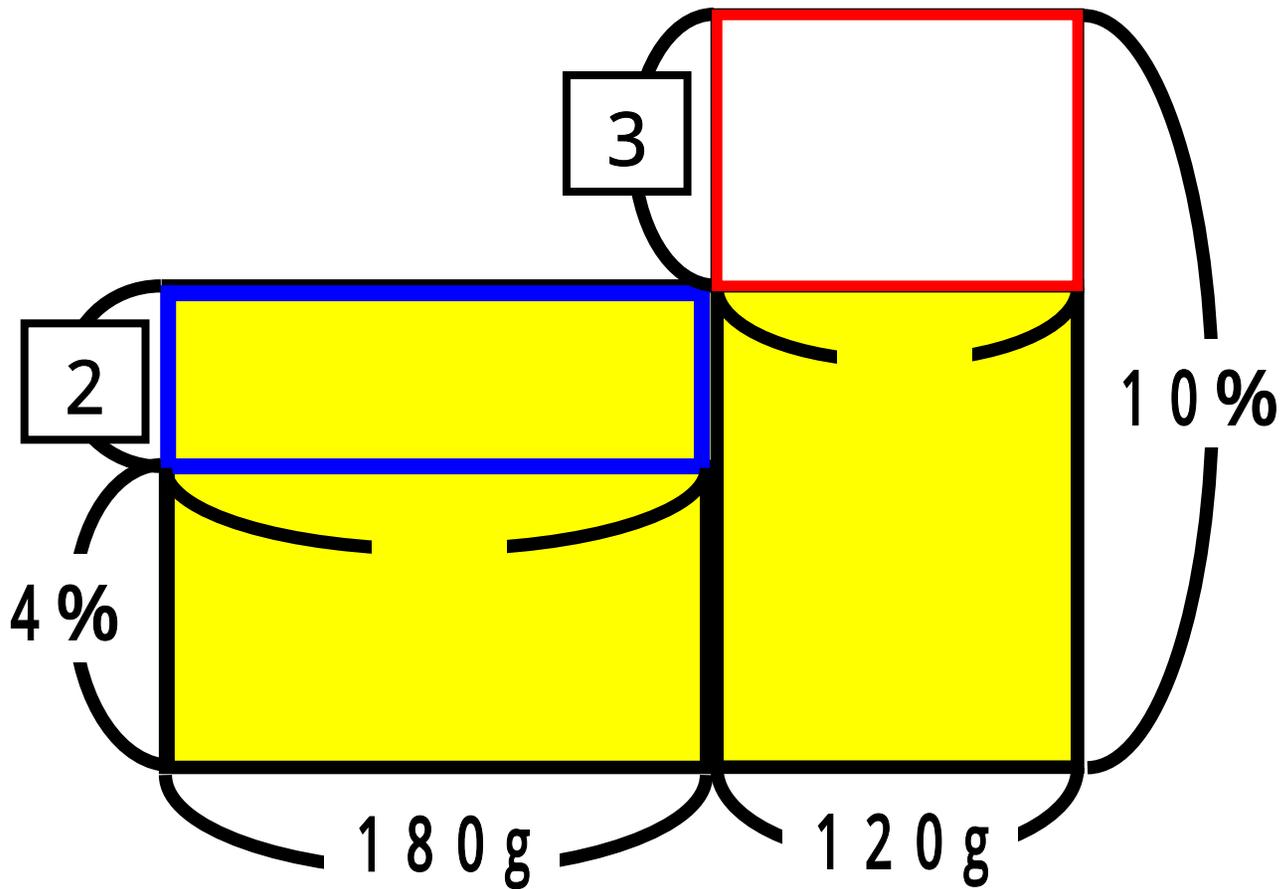
4%

180g

+

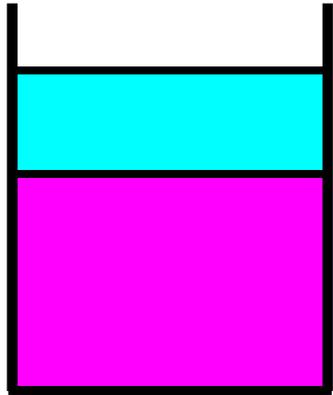
10%

120g

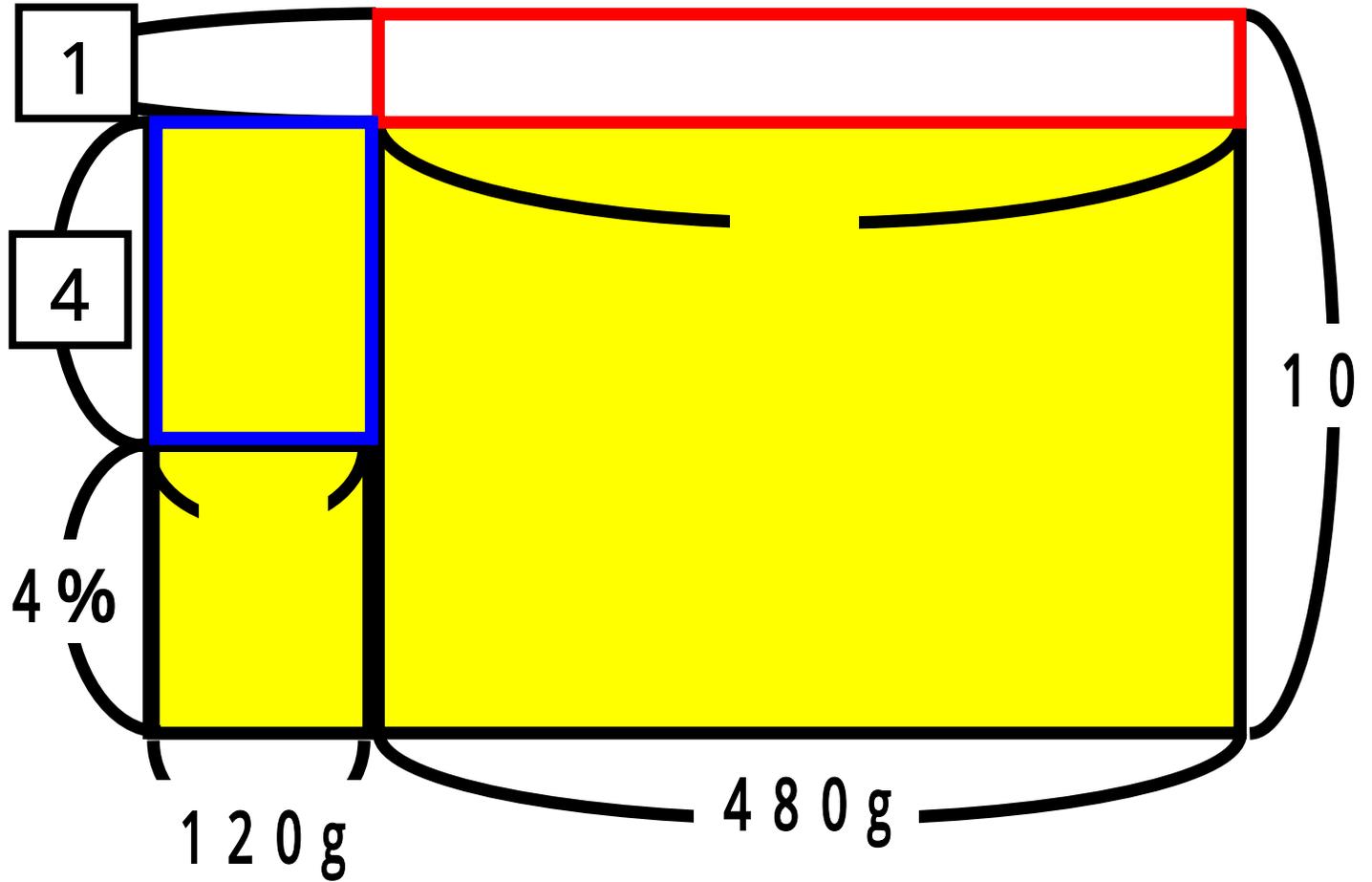


$$(10 - 4) \times \frac{2}{5} + 4 = 6.4 (\%)$$

4 (1)

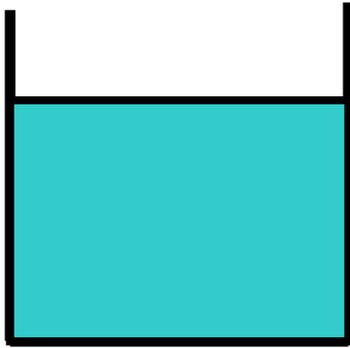


10%
480g
+
4%
120g



$$(10 - 4) \times \frac{4}{5} + 4 = 8.8 (\%)$$

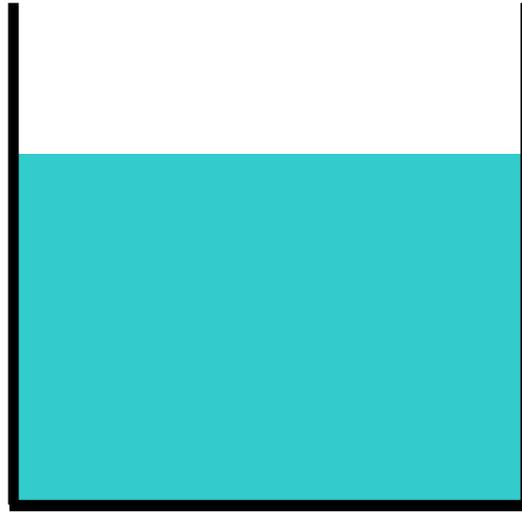
4 (2)



容器 A

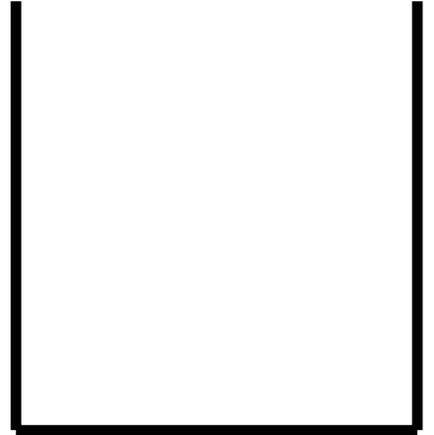
%

300g



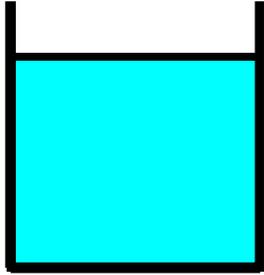
容器 B

%



容器 C

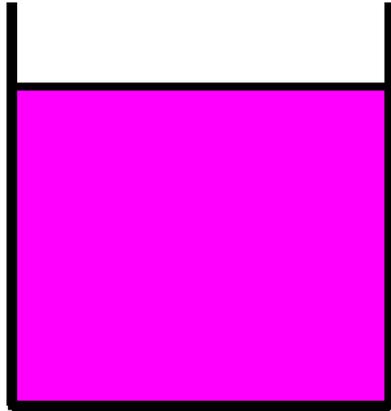
4 (2)



容器A

4 %
300 g

2



容器B

10 %
600 g

4 %

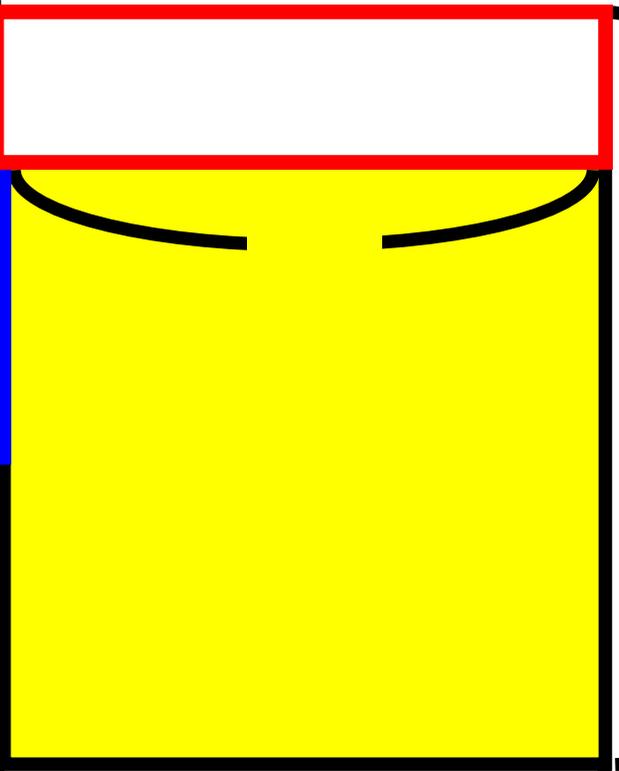
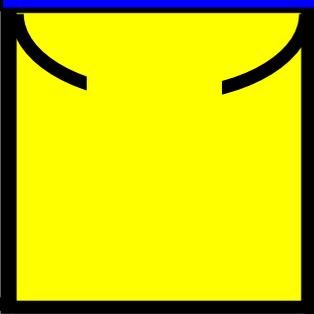
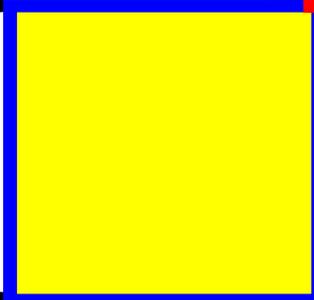
300 g

600 g

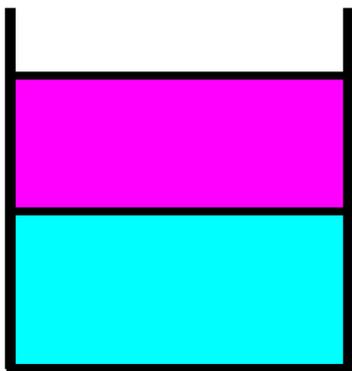
10 %

$$(10 - 4) \times \frac{2}{3} + 4 = 8 (\%)$$

1



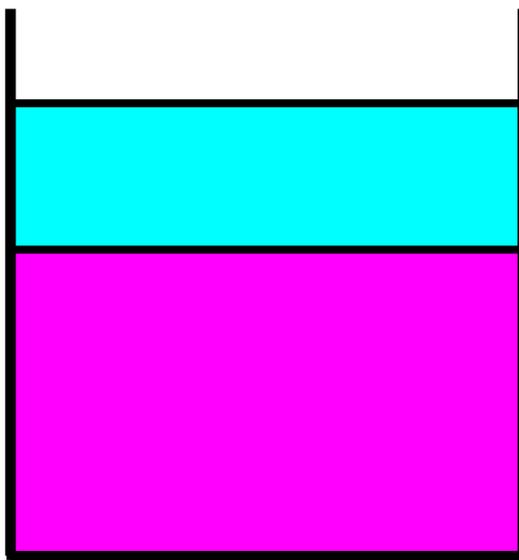
4 (2)



容器 A

4 %
300 - (g)
+
10 %
g

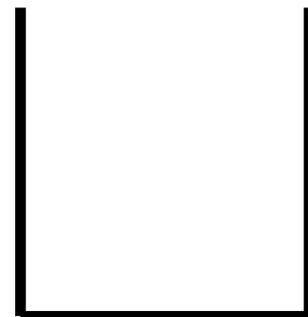
8 %



容器 B

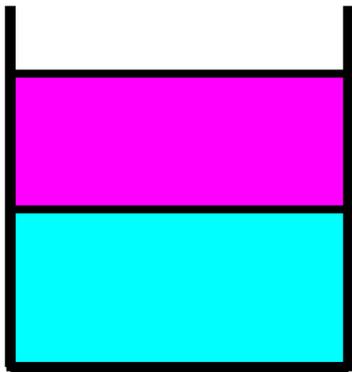
10 %
600 - g
+
4 %
g

8 %



容器 C

4 (2)



容器 A

4%

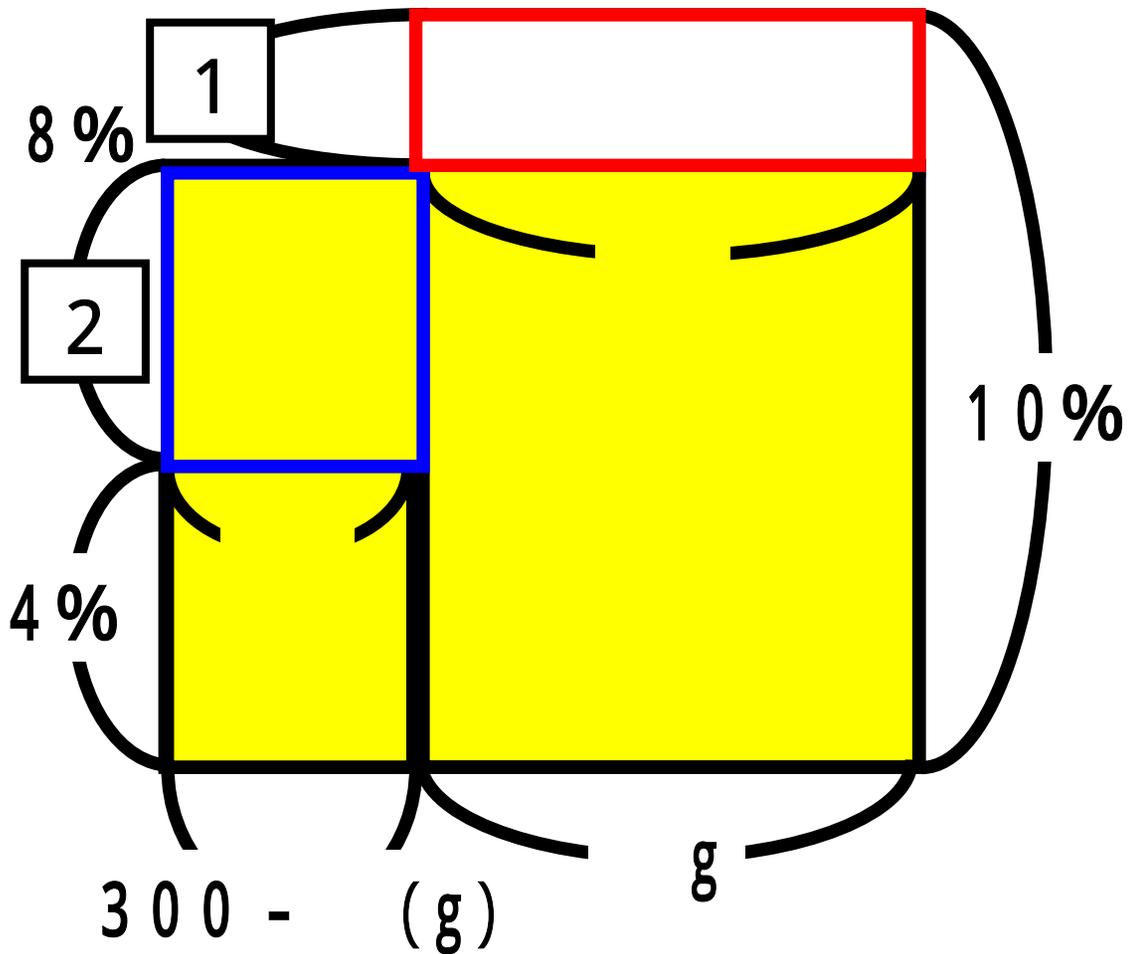
300 - (g)

+

10%

g

8%

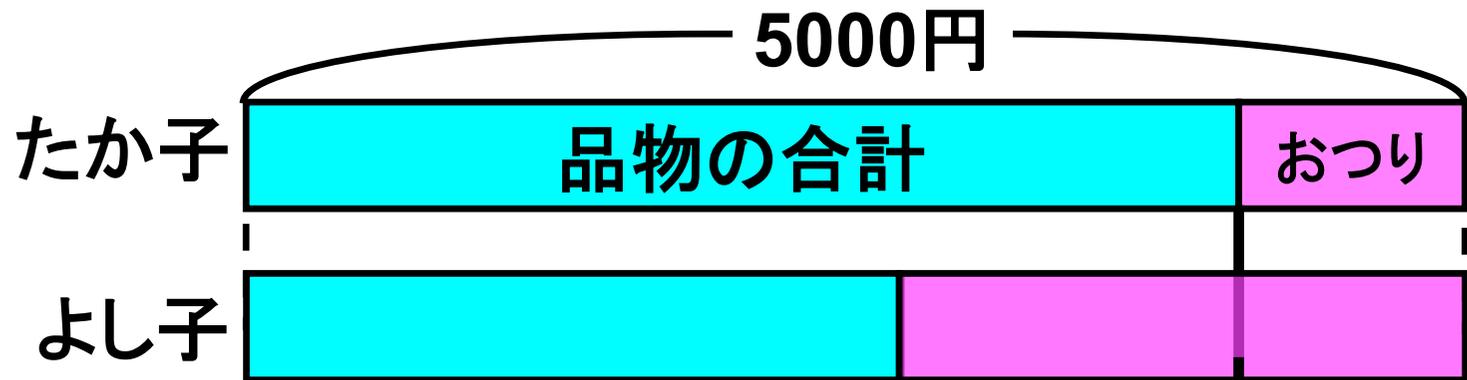


300 - (g)

g

$$300 - : = 1 : 2$$
$$= 200 (g)$$

5 (1)



$$100 - 10 = 90 (\text{円})$$

2人のおつりの差 \Rightarrow **90の倍数**

$$120 - 50 = 70 (\text{円})$$

2人の金額の差 \Rightarrow **70の倍数**

\Rightarrow 2人のおつりの差

$$630 \div 90 = 7 (\text{枚})$$

5 (2)

$$630 \div (120 - 50) = 9 \text{ (個)}$$

…品物AとBの個数の差

10円玉	100円玉	おつり
1枚	8枚	180円
2枚	9枚	290円

↑ 7枚差 ↑

5 (2)

たか子さん

おつり

180円の時

$5000 - 180 = 4820$ (円) … 品物の合計金額

$(4820 - 120 \times 9) \div (50 + 120) = 22$ (個)

… 品物Aの個数

~~290円の時~~

~~$5000 - 290 = 4710$ (円) … 品物の合計金額~~

~~$(4710 - 120 \times 9) \div (50 + 120) = 21.2 \dots$ (個)~~

~~… 品物Aの個数~~

5 (3)

たか子さん

おつり

180円の時

$$5000 - 180 = 4820 \text{ (円)} \quad \cdots \text{品物の合計金額}$$

$$(4820 - 120 \times 9) \div (50 + 120) = 22 \text{ (個)}$$

\cdots 品物Aの個数

$$22 + 9 = 31 \text{ (個)}$$