

算数

第1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 }

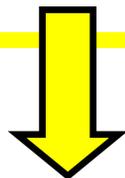
各6点

記述式問題…3問

2

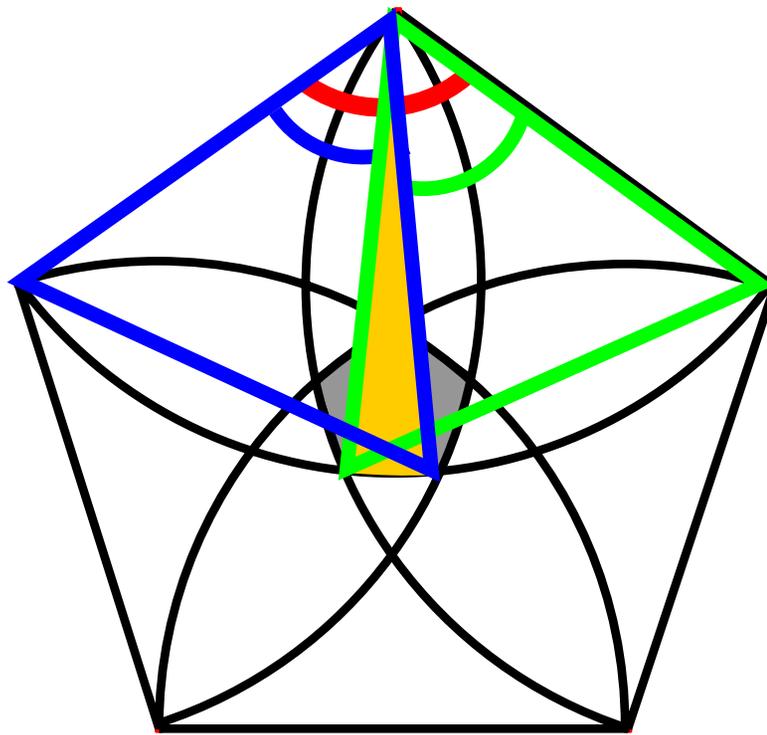
1行問題

- (1) 比
- (2) 旅人算
- (3) 仕事算
- (4) 面積比
- (5) 割合
- (6) 食塩水
- (7) 図形
- (8) 数の性質



各項目の基本事項が
定着しているかを確認

2(7)



$$60 \times 2 - 108 = 12 (\text{度})$$

$$2 \times 9 \times 3.14 \times \frac{12}{360} \times 5 = 9.42 (\text{cm})$$

2(8) 4つの数を、 a, b, c, d とする。

$$a \times b, a \times c, a \times d, b \times c, b \times d, c \times d$$

小 $a \times b, a \times c, a \times d, b \times c, b \times d, c \times d$ 大

12, 27, 36, 48, 108

$$1 \times 36$$

$$2 \times 18$$

$$3 \times 12$$

$$4 \times 9$$

~~$$6 \times 6$$~~

3 (1) P地点からQ地点までの距離を1とする。

$$(\text{船の速さ}) + (\text{川の速さ}) = \frac{1}{60}$$

$$(\text{船の速さ}) - (\text{川の速さ}) = \frac{1}{90}$$

$$2 \times (\text{船の速さ}) = \frac{1}{36}$$

$$(\text{船の速さ}) = \frac{1}{72}$$

$$(\text{川の速さ}) = \frac{1}{360} \rightarrow \text{晴れの日}$$

$$\text{雨の日の川の速さ: } \frac{2}{360} = \frac{1}{180}$$

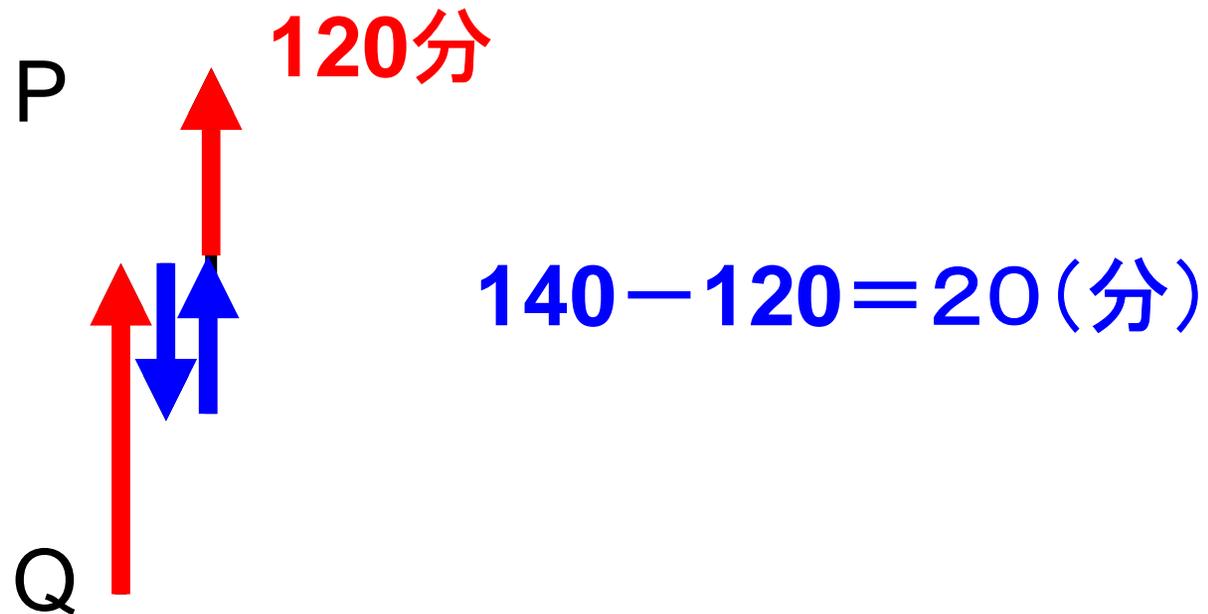
$$1 \div \left(\frac{1}{72} - \frac{1}{180} \right) = 120 (\text{分})$$

(2) 晴れの日

$$\begin{aligned} (\text{船の速さ}) : (\text{川の速さ}) &= \frac{1}{72} : \frac{1}{360} \\ &= \textcircled{5} : \textcircled{1} \end{aligned}$$

雨の日

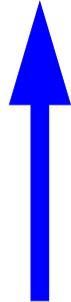
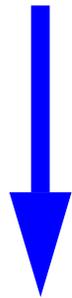
$$(\text{船の速さ}) : (\text{川の速さ}) = \textcircled{5} : \textcircled{2}$$



雨の日

$$(\text{船の速さ}) : (\text{川の速さ}) = \textcircled{5} : \textcircled{2}$$

P



$$\textcircled{5} - \textcircled{2}$$

20(分)

Q

速さ	②	③
時間	③	②

$$20 \div (3 + 2) \times 3 = 12(\text{分})$$

4 (1) $60 \div (55 - 40) = (\text{毎分}) 4 (\text{ℓ})$

...管ウ

(2) $50 \div 10 = (\text{毎分}) 5 (\text{ℓ})$

...管ア

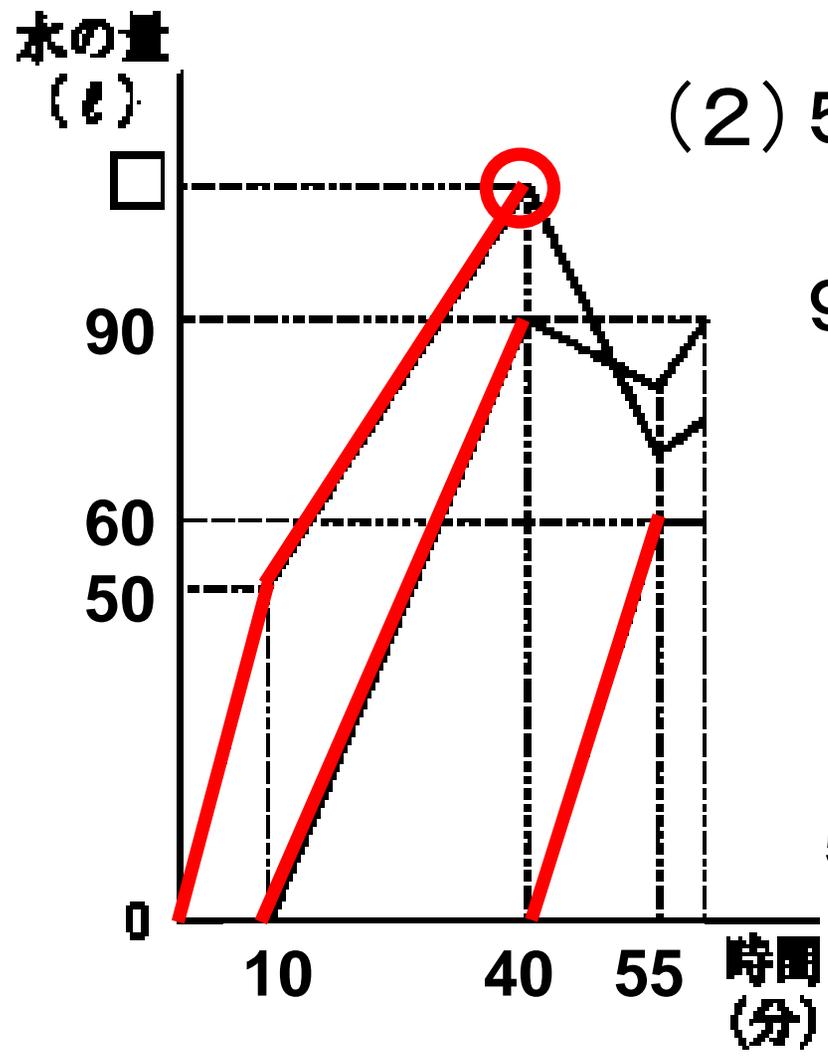
$90 \div (40 - 10) = (\text{毎分}) 3 (\text{ℓ})$

...管イ

$5 - 3 = (\text{毎分}) 2 (\text{ℓ})$

$50 + (40 - 10) \times 2 = 110 (\text{ℓ})$

...40分後の容器Aの水の量

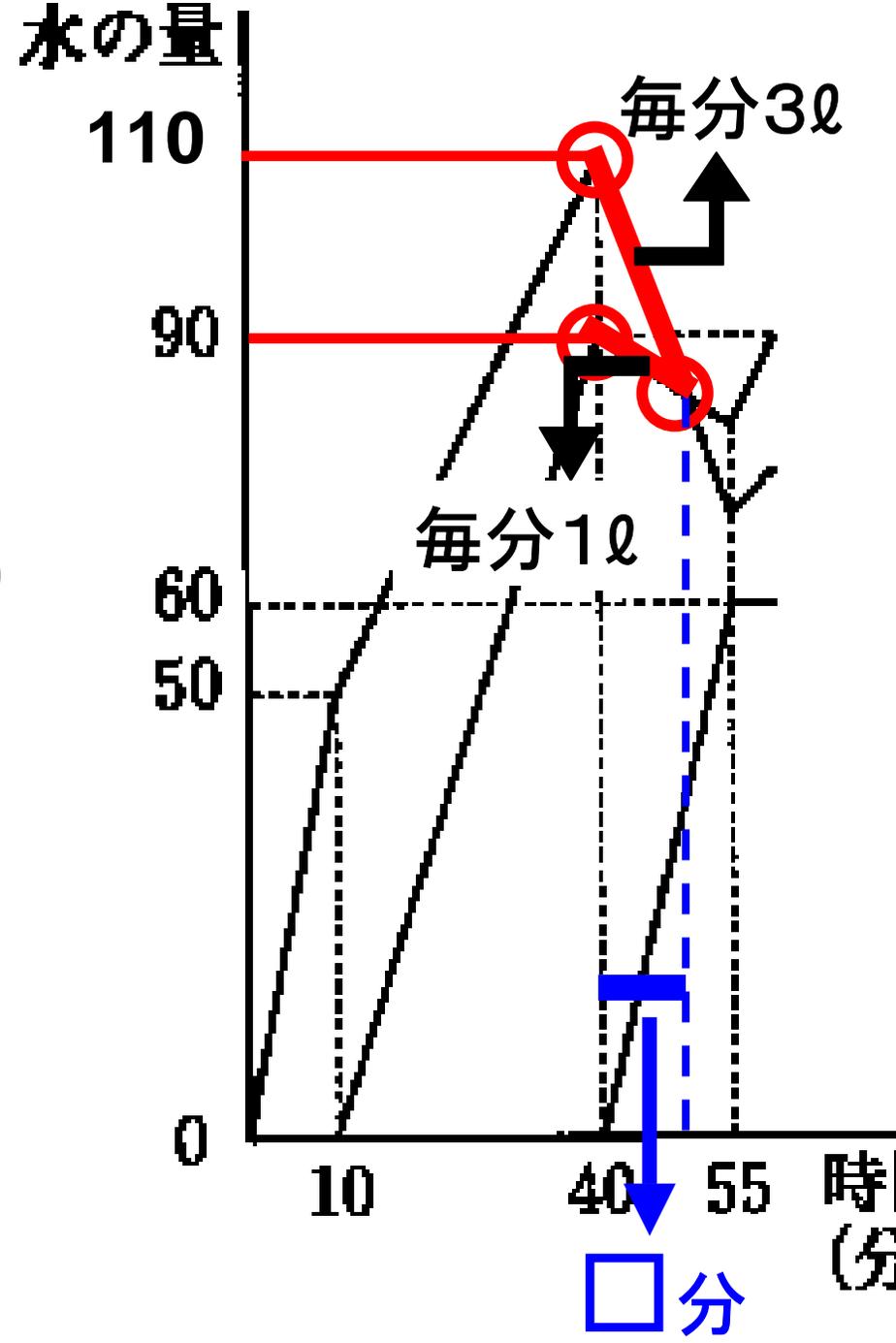


4 (3)

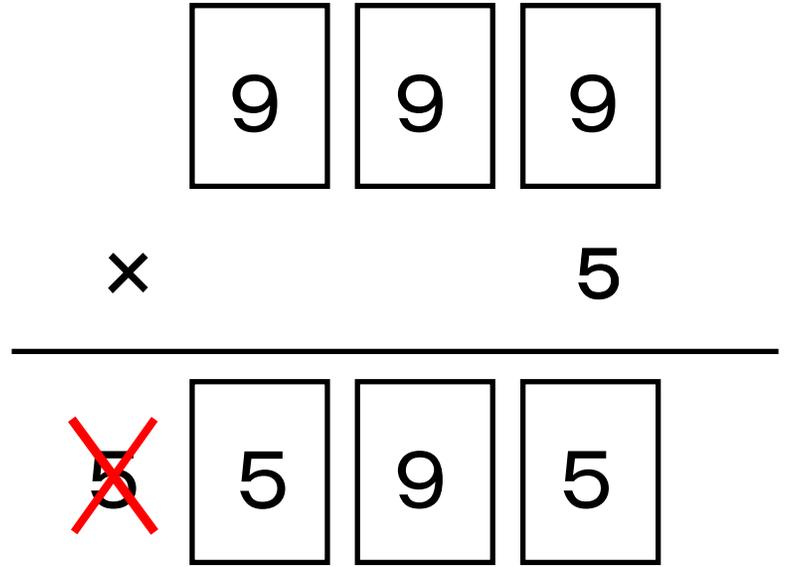
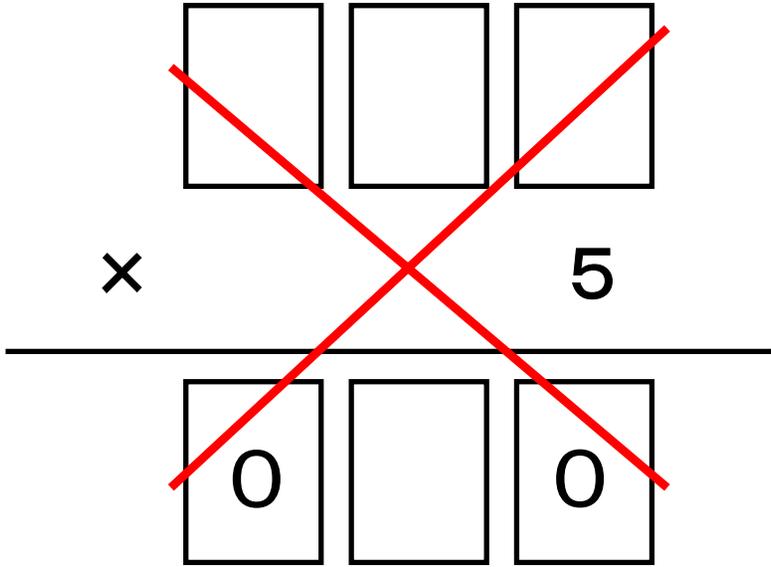
$$110 - 90 = 20 (\text{l})$$

$$20 \div (3 - 1) = 10 (\text{分})$$

$$40 + 10 = 50 (\text{分後})$$

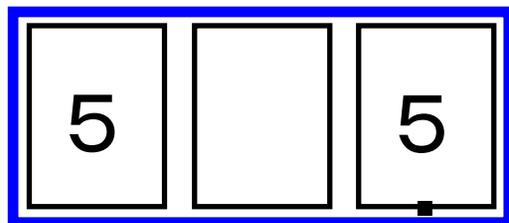


5 (1)



$$595 \div 5 = 119$$

5 (2)

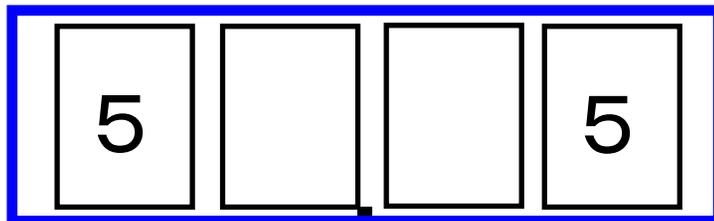


÷ 15

3の倍数, 3の倍数
5

525, 555, 585

(3)



÷ 15

3の倍数

5115, 5445, 5775

15で割ったときの商... 341, 363, 385