

算数

第2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 }

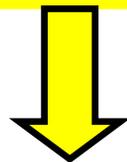
各6点

記述式問題…3問

2

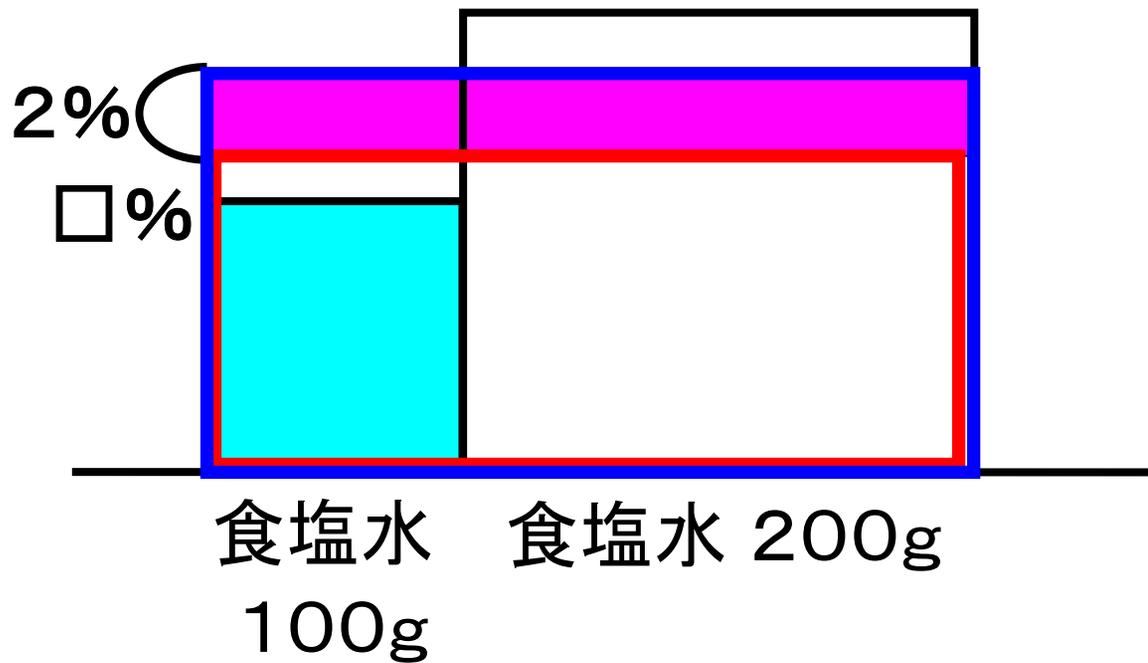
1行問題

- (1) 周期算
- (2) 比
- (3) 立体の体積と比
- (4) 流水算
- (5) 図形の角度
- (6) 食塩水
- (7) 図形の面積
- (8) 条件を整理する問題



各項目の基本事項が
定着しているかを確認

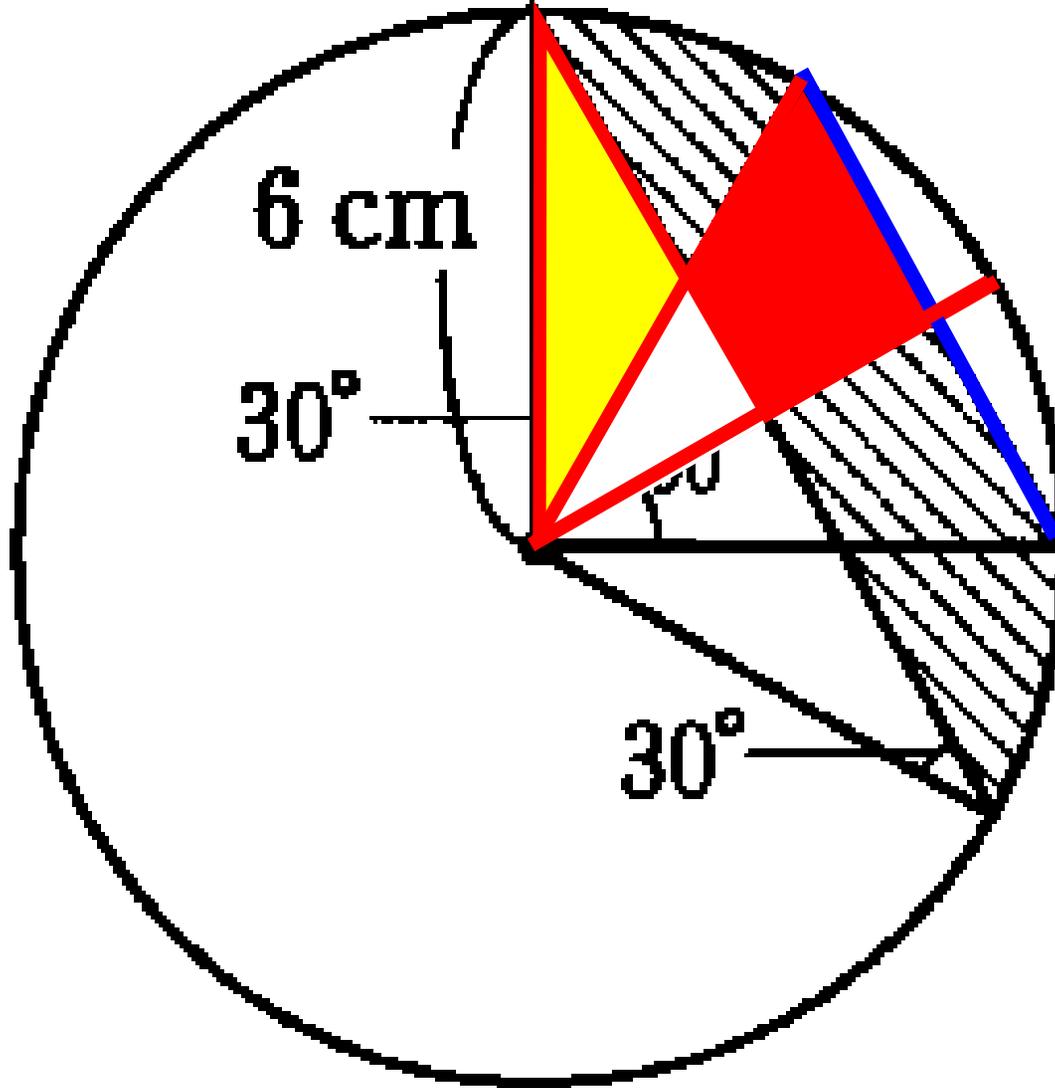
2 (6)



$$\square \times 100 = 2 \times 300$$

$$\square = 6 (\%)$$

2 (7)



$$6 \times 6 \times 3.14 \times \frac{60}{360} = 18.84 (\text{cm}^2)$$

2 (8)

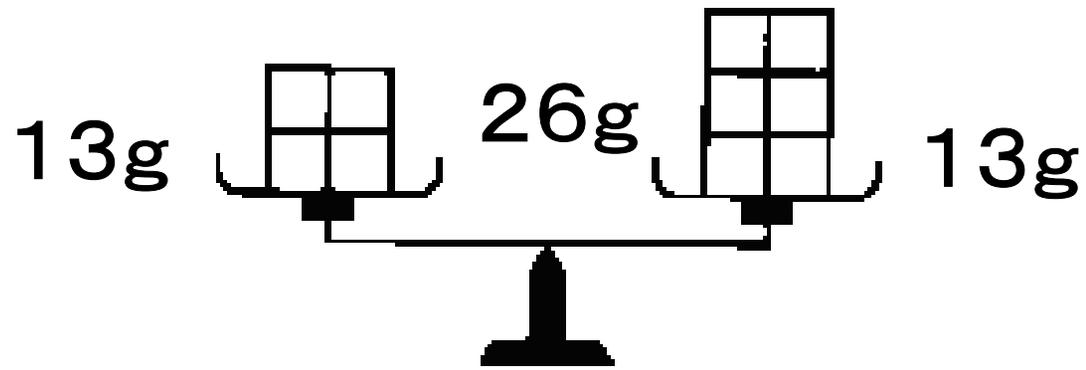


图 1

$$13 = 2 + 3 + 4 + 4$$

~~$$13 = 3 + 3 + 3 + 4$$~~

$$13 = 2 + 2 + 2 + 2 + 2 + 3$$

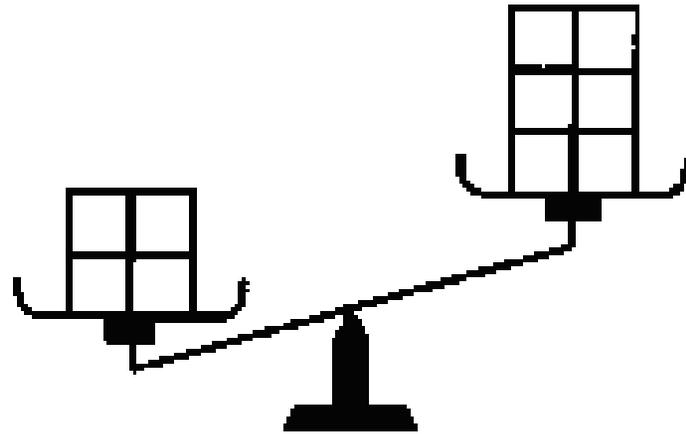


图 2

3 (1) $65 - 40 = 25$ (分間)

水の量
(ℓ)

60

管AとB...それぞれ毎分1 ℓ

\Rightarrow 2本で毎分2 ℓ 減る

$25 \times 2 = 50$ (ℓ)

管AとBのみ

0

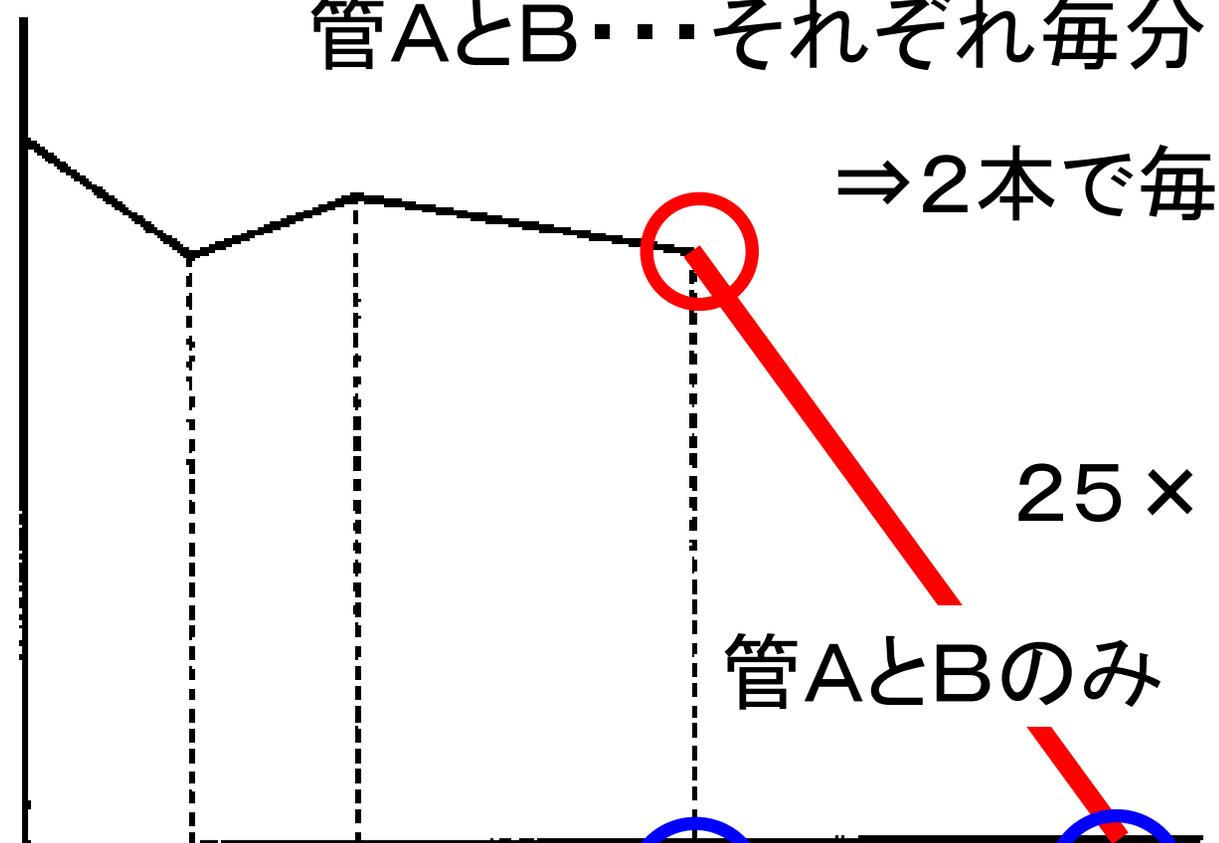
10

20

40

65

時間
(分)

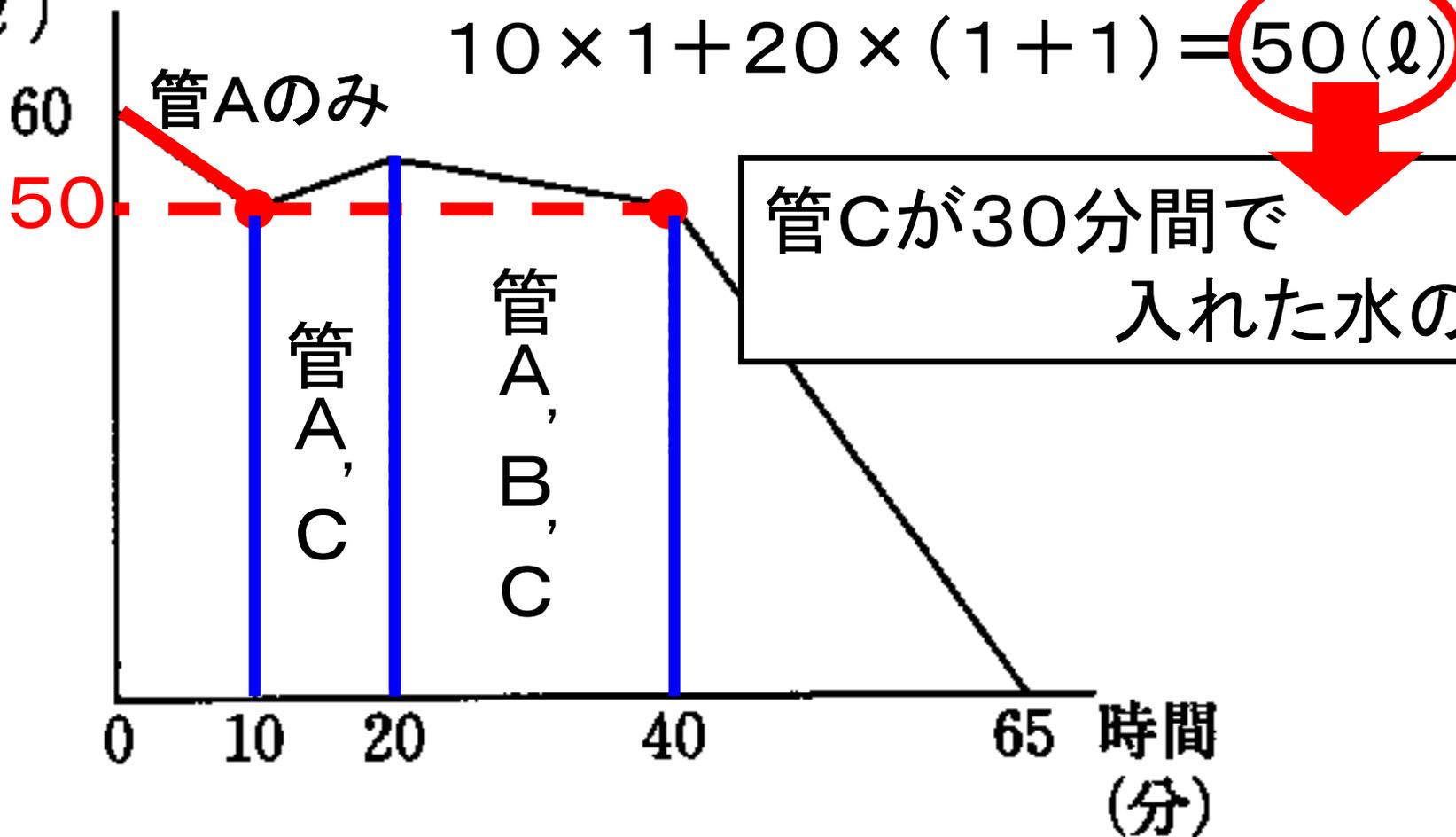


3 (2) $60 - 1 \times 10 = 50 (\text{l})$

10分後～40分後...

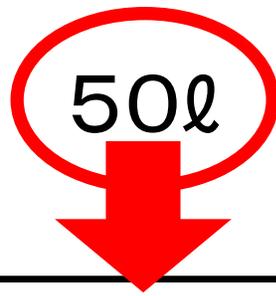
(水を入れる量) = (水が出る量)

水の量
(l)



3 (2)

50ℓ



管Cが30分間で
入れた水の量

$$30(\text{分}) : 50(\text{ℓ}) = \square(\text{分}) : 60(\text{ℓ})$$

$$\square = 36(\text{分})$$

4

$$9 \div 4 = 2 \cdots 1$$

$$9 \div 4 = 2.25$$

⋮

$$1 \div 4$$

(余り) ÷ (割る数)

4

(1)

$1 \div 7 = 0.14285714\dots$
 $2 \div 7 = 0.28571428\dots$
 $3 \div 7 = 0.42857142\dots$
 $4 \div 7 = 0.57142857\dots$
 $5 \div 7 = 0.71428571\dots$
 $6 \div 7 = 0.85714285\dots$

1, 2, 4, 5, 7, 8

$$1 + 2 + 4 + 5 + 7 + 8 = 27$$

$$27 \times 2 = 54$$

(2) $276 \div 27 = 10 \dots 6$



4

$$1 \div 7 = 0.14285714\dots$$

$$2 \div 7 = 0.28571428\dots$$

$$3 \div 7 = 0.42857142\dots$$

$$4 \div 7 = 0.57142857\dots$$

$$5 \div 7 = 0.71428571\dots$$

$$6 \div 7 = 0.85714285\dots$$

(2) $276 \div 27 = 10 \dots 6$

276. 

$$(\text{ある整数}) \div 7 = 276 \dots 3$$

$$(\text{ある整数}) = 276 \times 7 + 3 = 1935$$

4 (3)

1, 2, 4, 5, 7, 8



$$3 \div 7 = 0.42857142 \dots$$

$$6 \times 10 + 2 = 62$$

5

图 1

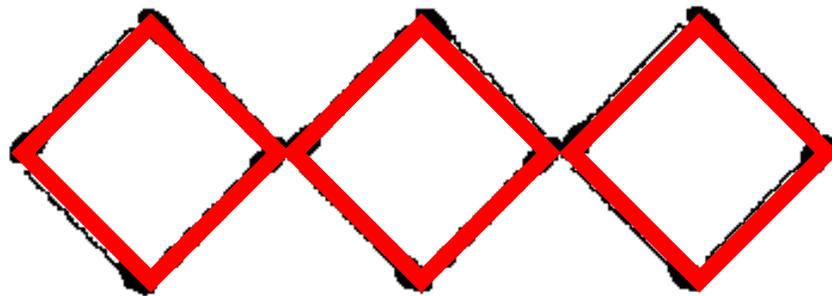


图 1... $4 \times \square$ (本)

图 2

图 2... $1 + 3 \times \square$ (本)

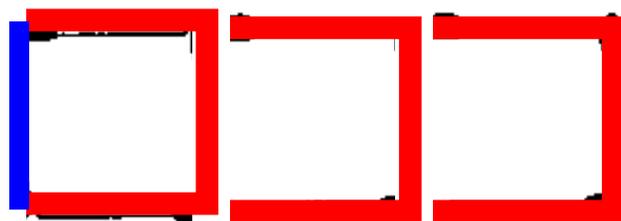
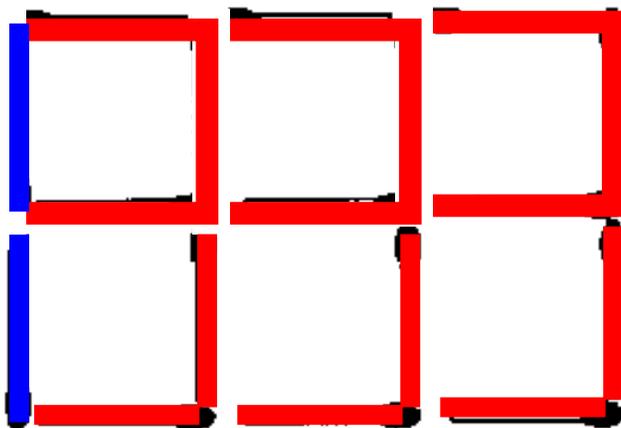


图 3... $2 + 5 \times \square$ (本)

图 3



$$\boxed{5} \quad (1) \quad \text{図1} \cdots 4 \times 19 = 76 \text{ (本)}$$

$$\text{図2} \cdots 1 + 3 \times \square \text{ (本)}$$

$$1 + 3 \times \square = 76 \text{ (本)}$$

$$\square = 25 \text{ (個)}$$

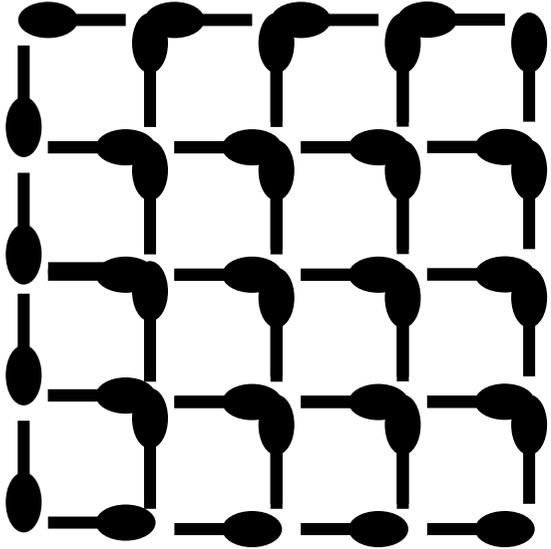
$$(2) \quad \text{図1} \cdots 4 \times \square \quad \cdots \cdots \cdots 4 \text{ の倍数}$$

$$\text{図2} \cdots 1 + 3 \times \square \quad \cdots \cdots 3 \text{ で割って } 1 \text{ 余る}$$

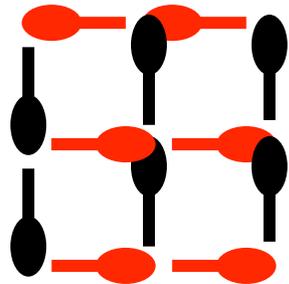
$$\text{図3} \cdots 2 + 5 \times \square \quad \cdots \cdots \text{一の位が } 2 \text{ か } 7$$

12本, 32本, **52本**, 72本, 92本

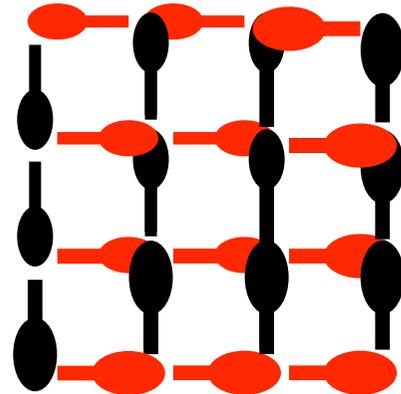
5 (3)



...

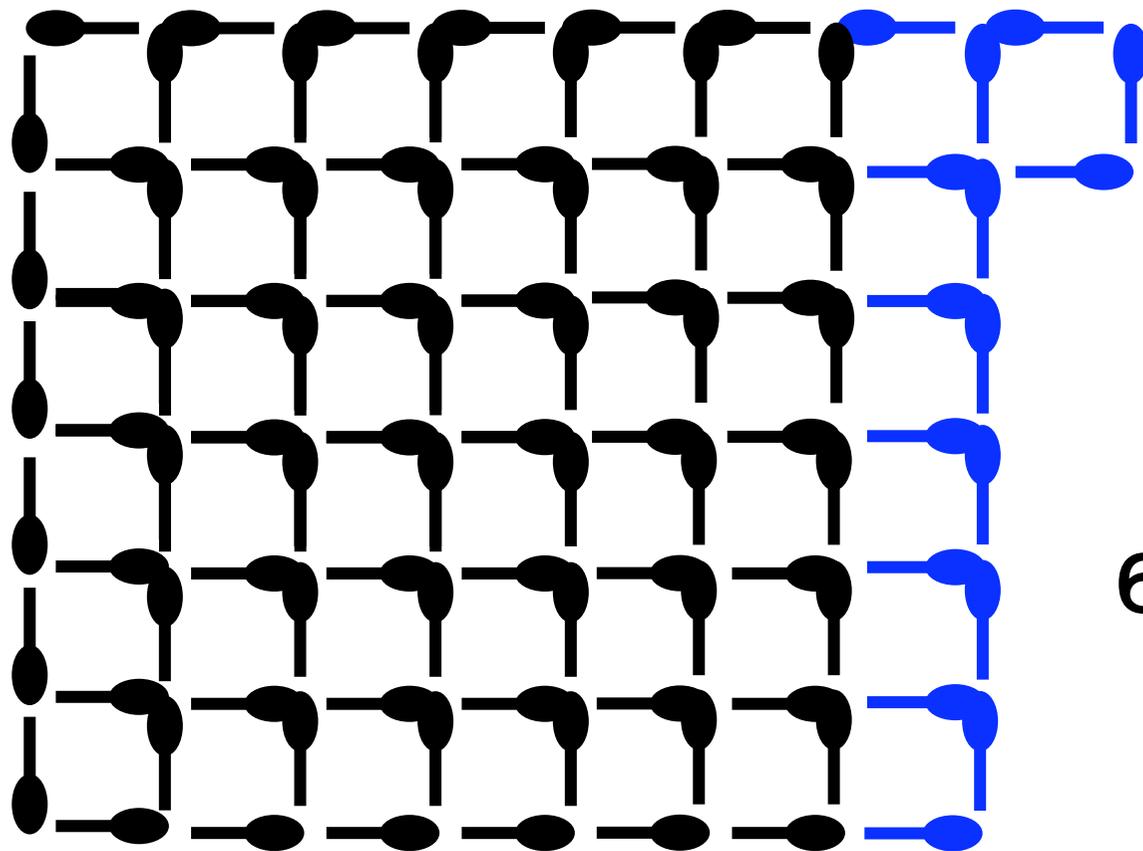


正方形	本数(本)
2×2	2×3 ×2=12
3×3	3×4 ×2=24
4×4	4×5 ×2=40
5×5	5×6 ×2=60
6×6	6×7 ×2=84
7×7	7×8 ×2=112
⋮	⋮



5 (3)

$$6 \times 7 \times 2 = 84 (\text{本})$$



$$100 - 84 = 16 (\text{本})$$

$$6 \times 6 + 7 = 43 (\text{個})$$