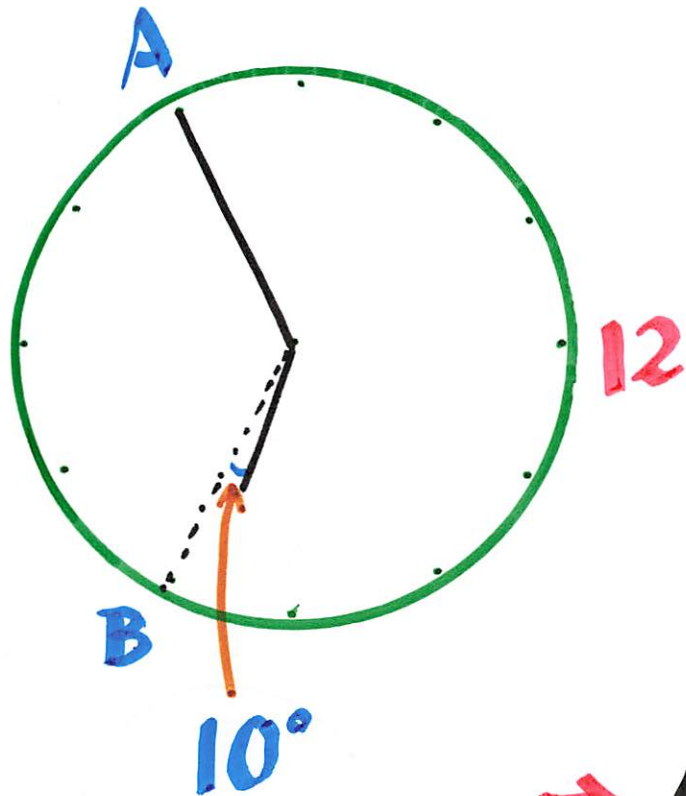


ST2

38%

長針: $6^\circ/\text{分}$, 短針: $0.5^\circ/\text{分}$



$10^\circ \Rightarrow 10 \div 0.5 = 20 \text{ 分}$

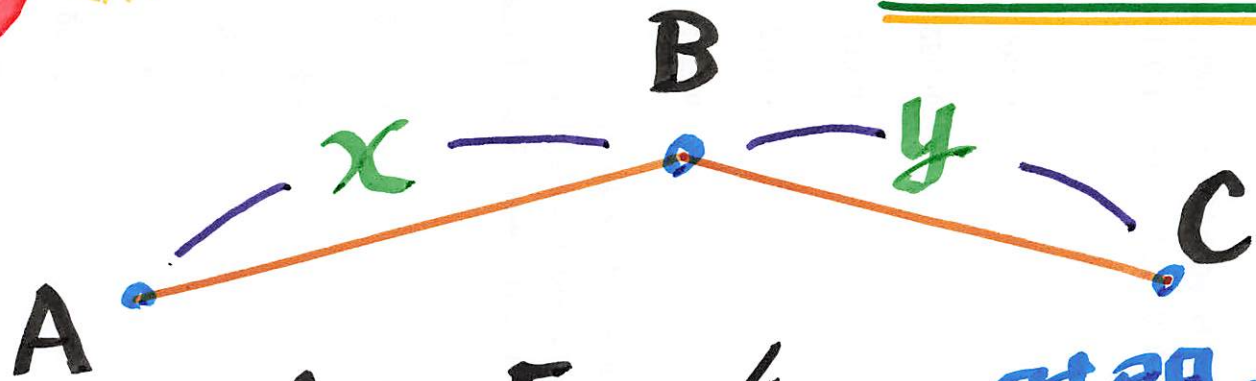
20 分後以正時

長針: 20 分後 $\Rightarrow 12$

$\Rightarrow$ 短針: B 4

ST2 3 27%

速 $\times$ 時間 = 距離



上り: 5 km/h
下り: 30 km/h

時間: $80 - 18 - 13$
 $= 49$ 分

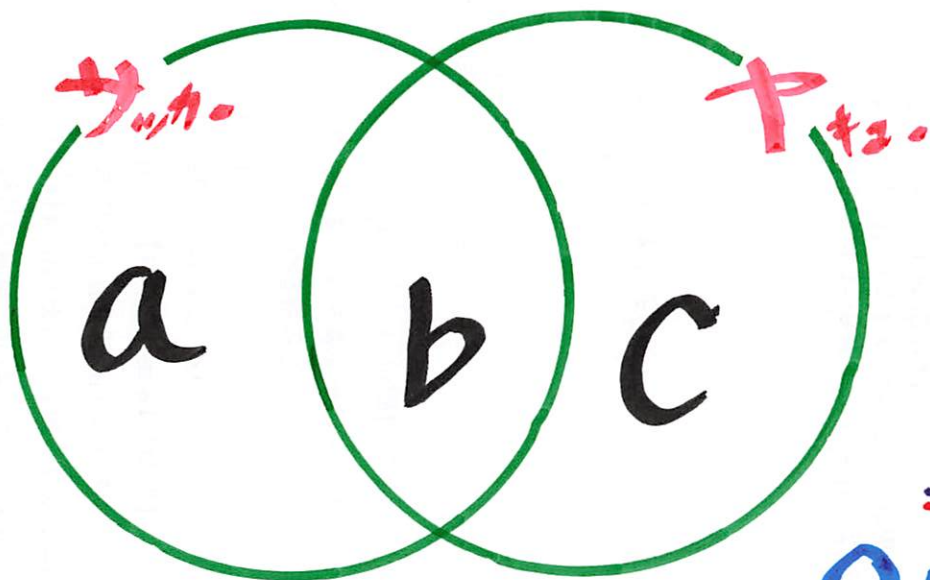
$\left(\frac{x}{5} + \frac{y}{30}\right) + \left(\frac{x}{30} + \frac{y}{5}\right) = \frac{49}{60}$

$12x + 2x + 2y + 12y = 49$

$x + y = 49 \div 14 = \underline{\underline{3.5 \text{ km}}}$

SJ2 **4** 22%

ベン図



a: サッカーのみ好む

b: サッカーと野球両方好む

c: 野球のみ好む

$$\underline{\underline{a + b + c = 150 - 35 = 115}}$$

$$0.8(a + b) = b \Rightarrow a = b/4$$

$$0.6(b + c) = b \Rightarrow c = 2b/3$$

$$\underline{a + b + c = b/4 + b + 2b/3 = 115 \Rightarrow b = 60}$$

ST2 **6** 45%

A, B, C の速さ $\Rightarrow a, b, c$

A	A - B	0.5 h
B	B - C	1 h
C	A - C	1.5 h
	+ 0.5 時間	$2a = 0.5c$
	+ 0.5 h	$2b = 1 \cdot c$

30 分 = 0.5 時間
= 0.5 h

① $\rightarrow C = 4a$ ①'

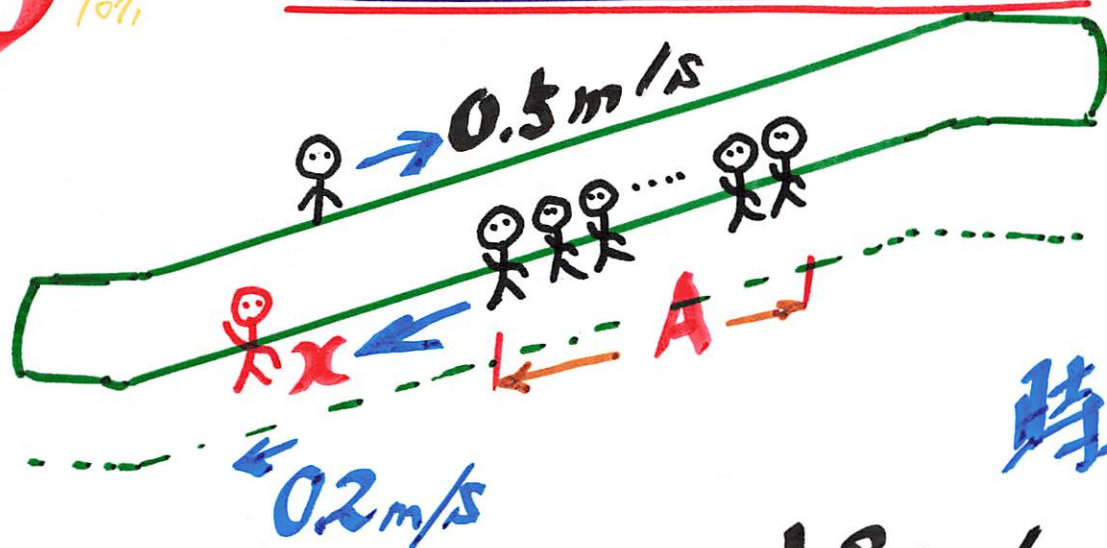
② $\rightarrow C = 2b$ ②'

$C - 2.5a = 9$ ③

①' $\rightarrow$ ③ $\rightarrow$ $a = 6, C = 24, b = 12$ km/h

ST2 8 10%

速 $\times$ 時間 = キョリ



A: 列の長さ

x: 列の速さ

時速 $\rightarrow$ 秒速 $\text{km/h} \rightarrow \text{m/s}$

$1.8 \text{ km/h} = 0.5 \text{ m/s}, 720 \text{ m} = 0.2 \text{ m/s}$

すれ違い: $A = 10 \cdot (0.5 + x) = 5 + 10x$ ①

追越え: $A = 20(x - 0.2) = 20x - 4$ ②

① = ② より $x = 0.9$

①へ $A = 14$ (m)

SJ2 **10** 37%

x :可焼 y :不燃・埋

不燃1割リサイクル $\Rightarrow 0.9y$ ・埋 $x+0.9y$

"4割" $\Rightarrow 0.6y$ 埋 $x+0.6y$

あと3年から

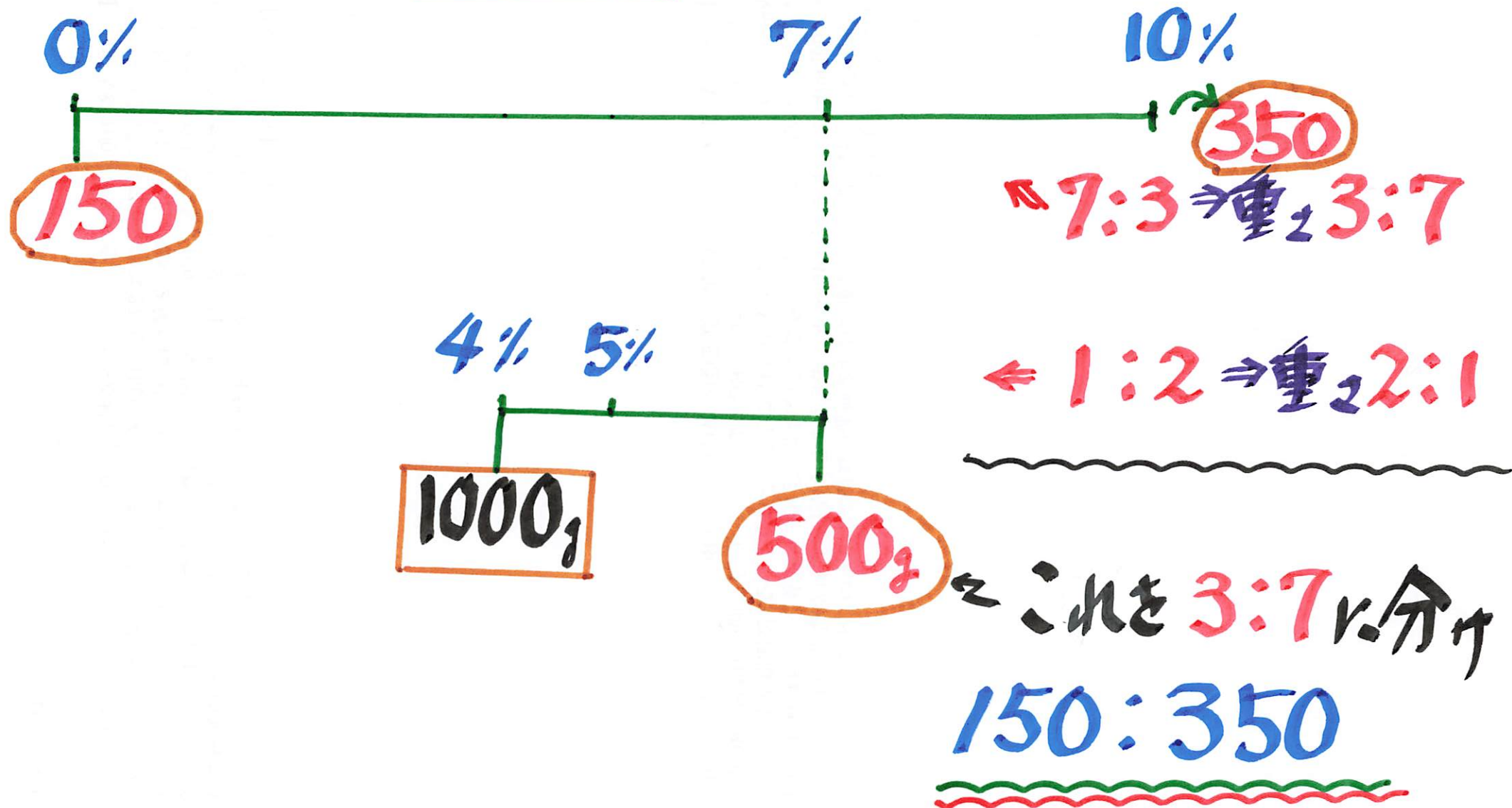
$$x+0.6y = \frac{7}{8}(x+0.9y)$$

$$8x+4.8y = 7x+6.3y \Rightarrow x = 1.5y$$

$$\frac{y}{x+y} = \frac{1}{2.5} = 0.4 \rightarrow \text{4割}$$

SI2 // 24%

天秤



SJ2 12 ^{14/4}

	t 日	4 日
A	a at	$= bt$
B	b bt	$= at$

12 日

$$4a = bt \quad ①$$
$$12b = at \quad ②$$

② $\times 4$ $48b = 4at = bt^2$

$$t^2 = 48 \Rightarrow t = 4\sqrt{3} \doteq 6.8$$

$$\therefore 12 + 7 = 19 \text{ 日}$$

SJ2 13 31%

$$\underline{\underline{\text{出} = \text{入} + \text{初}}}$$

$$\underline{\underline{a/\text{分} \quad b/\text{分} \quad C}}$$

$$1 \cdot 60 \cdot a = 30 \cdot 60 + C \quad \textcircled{1}$$

$$5 \cdot 6 \cdot a = 30 \cdot 6 + C \quad \textcircled{2}$$

$$\textcircled{1} \quad 60a = 1800 + C$$

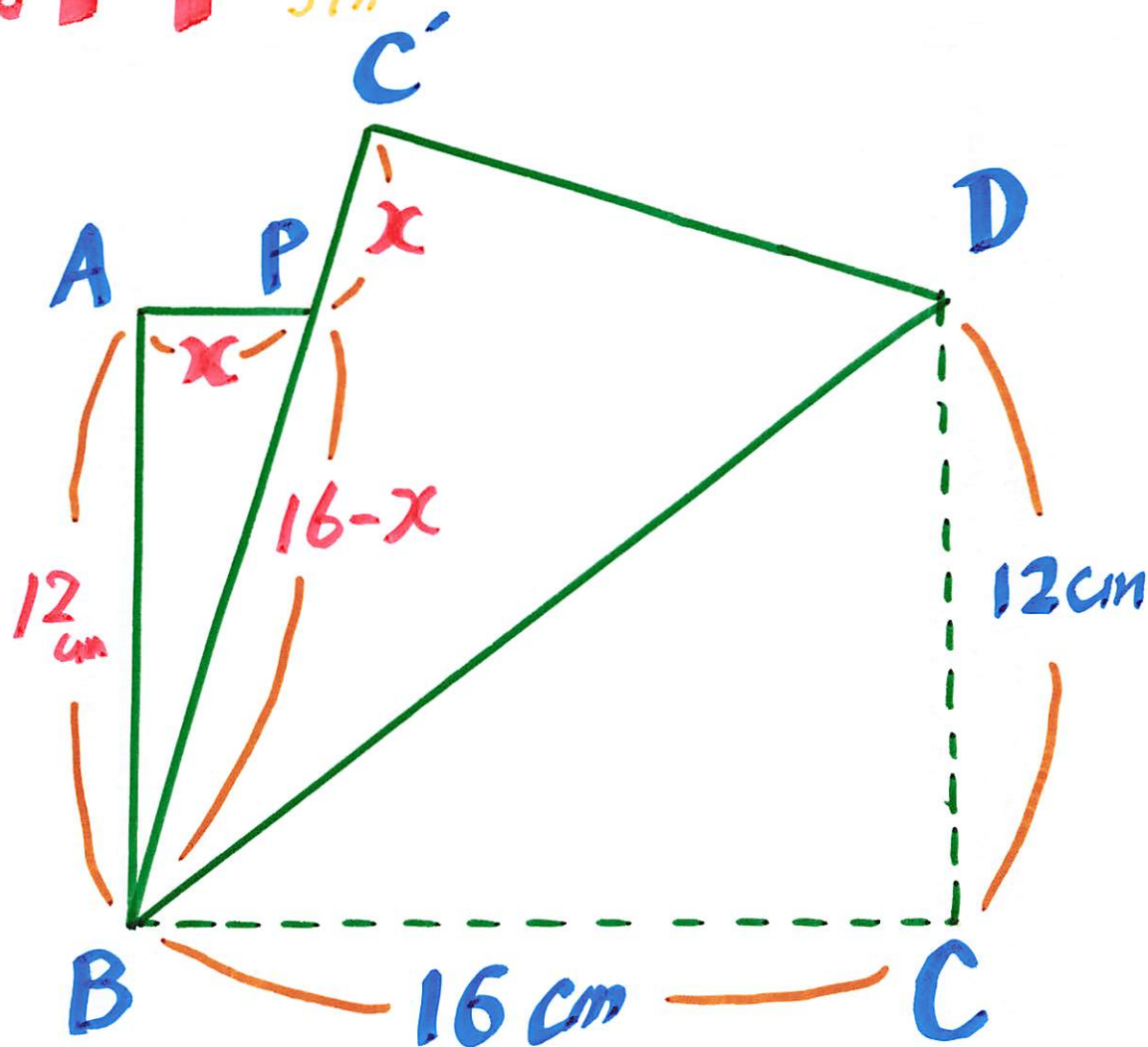
$$\textcircled{2} \quad 30a = 180 + C$$

$$30a = 1620$$

$$\underline{a = 54}$$

$$\textcircled{2} \downarrow C = 30 \times 54 - 180 = \underline{\underline{1440}} \text{人}$$

SJ2 14 39%



$$\underline{x^2 + 12^2 = (16 - x)^2}$$

$$x^2 + 144 = 256 - 32x + x^2$$

$$32x = 112$$

$x = 3.5$ cm