

$$\begin{aligned} \text{II (1)} & (8 - 9.3 \div 5 \frac{1}{6} \times 2 \frac{1}{2}) \div (\frac{1}{12} + 0.5) \\ &= (8 - \frac{93}{10} \times \frac{8}{3} \times \frac{5}{2}) \div (\frac{1}{12} + \frac{6}{12}) \\ &= \frac{1}{2} \times \frac{126}{8} = \underline{\underline{6}} \end{aligned}$$

$$(2) \quad (0.8 - \frac{3}{5}) \div \square + 1.8 \times \frac{5}{9} - \frac{3}{10} \times 4 = \frac{2}{5}$$

① ② ③ ④ ⑤

$$\textcircled{5} = \frac{2}{5} + \textcircled{4} = \frac{2}{5} + \frac{6}{5} = \frac{8}{5}$$

$$\textcircled{2} = \frac{8}{5} - \textcircled{3} = \frac{8}{5} - 1 = \frac{3}{5}$$

$$\square = \textcircled{1} \div \frac{3}{5} = \frac{1}{5} \times \frac{5}{3} = \frac{1}{3}$$

$$\textcircled{3} = \frac{1.8}{2} \times \frac{5}{9} = 1$$

$$\textcircled{4} = \frac{3}{5} \times 2 = \frac{6}{5}$$

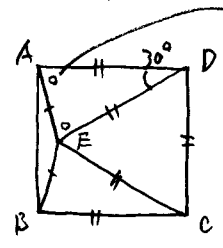
$$\textcircled{1} = \frac{4}{5} - \frac{3}{5} = \frac{1}{5}$$

A. $\frac{1}{3}$

$$\begin{aligned} (3) \quad & 3 \times 3 \times 3.14 \times 5 - 2 \times 2 \times \underbrace{6.28 \times 5}_{3.14 \times 2} \\ &= (3 \times 3 - 2 \times 2 \times 2) \times 3.14 \times 5 \\ &= 1 \times 3.14 \times 5 = 15.70 \end{aligned}$$

A. 15.7

(4)

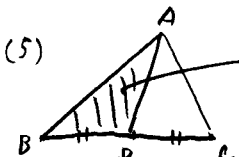


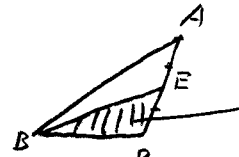
$$\angle = (180 - 30) \div 2 = 75^\circ$$

$$\angle = 90 - 75 = 15$$

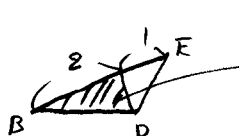
A. 15°

(5)



$$54 \times \frac{1}{2} = 27 \text{ cm}^2$$


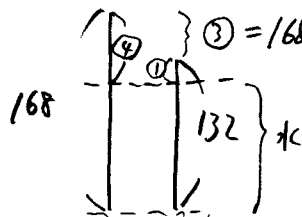
$$27 \times \frac{1}{2} = 13.5 \text{ cm}^2$$



$$13.5 \times \frac{2}{2+1} = 13.5 \times \frac{2}{3} = 9$$

A. 9 cm^2

(6) $300 \times \frac{14}{14+11} = 168 \text{ cm}$ $300 - 168 = 132 \text{ cm}$


 $\textcircled{3} = 168 - 132 = 36 \text{ cm}$ $\textcircled{1} = 36 \div 3 = 12 \text{ cm}$
 $\longrightarrow 132 - \textcircled{1} = 120$

A. 120 cm

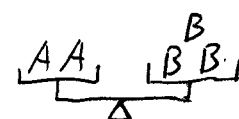
(7) 0に対して 2と5が1組あり。たとえば 14×15 は $\cancel{7} \times \cancel{3} \times \cancel{5}$ のように 2×5 がある。
 3の倍数の、5の倍数になっているのは 15の倍数


$15 = 3 \times 5$ $30 = 5 \times 6$ $45 = 5 \times 9$ $60 = 5 \times 12$ $75 = 5 \times 5 \times 3$

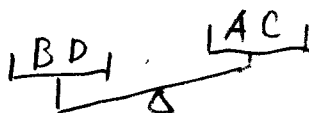
$90 = 5 \times 18$

全部で 5が7個
 偶数より以上あるので

A. 7

(8)  より $A : B = \textcircled{3} : \textcircled{2}$

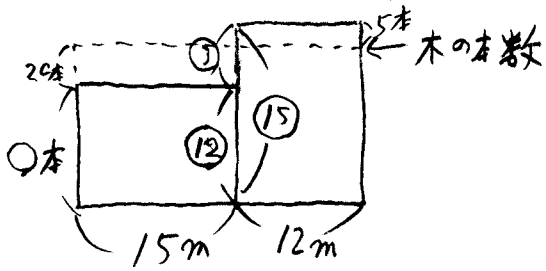
 $\rightarrow A < C$ Cは③より大

 $\rightarrow \textcircled{2} + D > \textcircled{3} + \textcircled{3}$ より大
 \downarrow
 Dは④より大

A ③ B ② C ③より大 D ④より大

$A \begin{cases} \textcircled{A} & 2 \\ \textcircled{D} & 4 \end{cases}$

2 (9) 面積図にてみよ



$$\textcircled{3} = 20 + 5 = 25 \text{ 本}$$

$$\textcircled{12} = 25 \times \frac{\textcircled{12}}{\textcircled{3}} = 100 \text{ 本}$$

$$100 + 20 = 120$$

A. 120本

(10) $15\text{m} \times 100 \text{ 本} = 1500$

A. 1500m

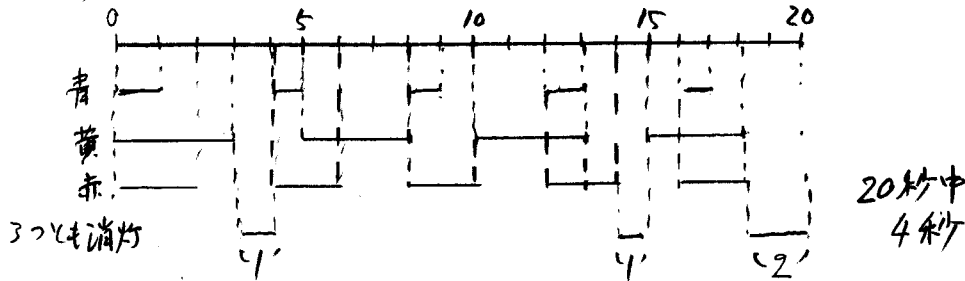
3 (11)

青 1秒 + 3秒 = 4秒ごとにつく
黄 3秒 + 2秒 = 5秒ごとにつく
赤 2秒 + 2秒 = 4秒ごとにつく

4, 5の最小公倍数 20

A. 20秒後

(12)



$$1\text{分}30\text{秒} = 90\text{秒} = 20\text{秒} \times 4 + 10\text{秒}$$

$$\text{消灯時間} \quad 4\text{秒} \times 4 + 1\text{秒} = 17$$

A. 17秒

14 (13) Bの動く半径 = $12 + 3 \times 2 = 18\text{cm}$

$$\frac{18 \times 2 \times 3.14 \times \frac{1}{2}}{360} = 15.7$$

$$\frac{15.7 \times 360}{18 \times 2 \times 3.14} = 50$$

A. 50度

(14) $\triangle A \rightarrow \triangle A' \sim \triangle B$ は相似 $18 \div 12 = \frac{3}{2} = 1.5$

A. 1.5倍

(15) $\triangle - \triangle + \textcircled{1} = 18 \times 18 \times 3.14 \times \frac{50}{360} - 12 \times 12 \times 3.14 \times \frac{50}{360} + 3 \times 3 \times 3.14$

$$= (324 - 144) \times \frac{50}{360} \times 3.14 + 9 \times 3.14$$

$$= 180 \times \frac{50}{360} \times 3.14 + 9 \times 3.14 = (25 + 9) \times 3.14 = 34 \times 3.14 = 106.76 \quad \underline{\underline{A. 106.76\text{cm}^2}}$$

15

(14) 同じ川の上下な。川の速さを考えなくてよい

$$60 \times \frac{1}{5} = 12$$

$$36 \text{ km} \div (15 + 15) = \frac{36}{30} = \frac{6}{5} \text{ 時間} = 1 \text{ 時間 } 12 \text{ 分}$$

A. 1時12分

(17) Pは下り $\rightarrow 15 + 3 = 18 \text{ km/時}$ $36 \text{ km} \div 18 = 2 \text{ 時間}$

Qは上り $\rightarrow 15 - 3 = 12 \text{ km/時}$

PがBに着いた時 $12 \text{ km/時} \times 2 \text{ 時間} = 24 \text{ km}$

A. 24km

(18) QがAに着くのは $36 \text{ km} \div 12 \text{ km/時} = 3 \text{ 時間}$

(17)よりその時の差は24km

2つの船が出会うのは

$$24 \div (15 + 15) = \frac{24}{30} = \frac{4}{5} \text{ 時間}$$

$$60 \times \frac{4}{5} = 48 \text{ 分} \rightarrow \text{出発してから3時間48分}$$

A. 11時48分

