

$$\begin{aligned}
 \text{① (1)} & (50 + 2 - \underbrace{2 \times 3}_6) - 4 \div \frac{1}{3} \\
 &= (52 - 6) - 4 \times 3 \\
 &= 46 - 12 \\
 &= \underline{\underline{34}}
 \end{aligned}$$

$$\begin{aligned}
 \text{(2)} & 4.8 \div \{15 - (\underbrace{32.6 - 5.8}_{26.8}) \div 2\} \\
 &= 4.8 \div (15 - 13.4) \\
 &= 4.8 \div 1.6 \\
 &= \underline{\underline{3}}
 \end{aligned}$$

$$\begin{aligned}
 \text{(2)} & \frac{5}{7} \times 124 + \frac{48}{7} \times \frac{5}{7} - \frac{10}{7} \times 51 \\
 &= \frac{1}{7} \times (\underbrace{5 \times 124}_{620} + \underbrace{48 \times 5}_{240} - \underbrace{10 \times 51}_{510}) \\
 &= \frac{1}{7} \times \underline{\underline{350}} \\
 &= \underline{\underline{50}}
 \end{aligned}$$

$$\begin{aligned}
 \text{(4)} & (\underbrace{\square - 0.25}_{\text{①}}) \div \underbrace{0.75 + \frac{2}{3}}_{\text{②}} = 1 \quad \text{②} = 1 - \frac{2}{3} = \frac{1}{3}
 \end{aligned}$$

$$(\underbrace{\square - \frac{1}{4}}_{\text{①}}) \div \frac{3}{4} = \frac{1}{3} \quad \text{①} = \frac{3}{4} \times \frac{1}{3} = \frac{1}{4}$$

$$\square - \frac{1}{4} = \frac{1}{4} \quad \square = \frac{1}{4} + \frac{1}{4} = \underline{\underline{\frac{1}{2}}} \quad (\text{又は } 0.5)$$

$$\text{(5)} \quad \frac{1}{\square} + \frac{1}{2 \times \square} + \frac{1}{3 \times \square} = \frac{1}{12}$$

$$\text{通分} \quad \frac{6}{6 \times \square} + \frac{3}{6 \times \square} + \frac{2}{6 \times \square} = \frac{11}{6 \times \square} = \frac{1}{12}$$

$$11 \div (6 \times \square) = \frac{1}{12} \quad (6 \times \square) = 11 \div \frac{1}{12} = 132 \quad \square = 132 \div 6 = \underline{\underline{22}}$$

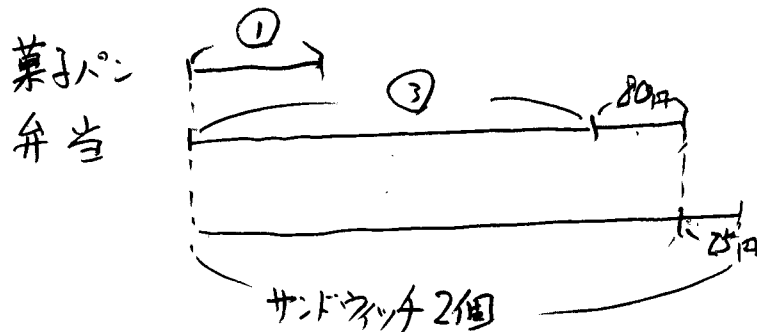
② (1)  $300_{cm} - 18_{cm} \times 12_{人} = 84_{cm}$  ..... 12人に18cmずつ分けを残り

$84 - 4 = 80_{cm}$  ... 残りの人に10cmずつ

$80 \div 10 = 8_{人}$        $12 + 8 = 20$

A.20

(2) 菓子パン1個を①とする



③ + 105cm

サンドウィッチ1個 = (③ + 105) ÷ 2

= ①.5 + 52.5cm

$710_{cm} = \underbrace{\textcircled{1}}_{\text{菓子パン}} + \underbrace{\textcircled{3} + 80}_{\text{弁当}} + \underbrace{\textcircled{1.5} + 52.5}_{\text{サンドウィッチ}} = \textcircled{5.5} + 132.5$

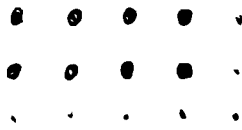
$\textcircled{5.5} = 710 - 132.5 = 577.5$

$\textcircled{1} = 577.5 \div 5.5 = 105$

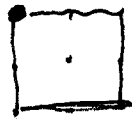
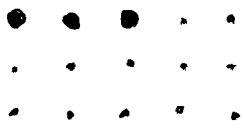
$105 \times 3 + 80 = 395$

A.395

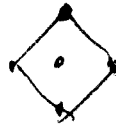
(3)



□ このサイズ左の●に存在場所の位置は  
左図の8個



同じく3個

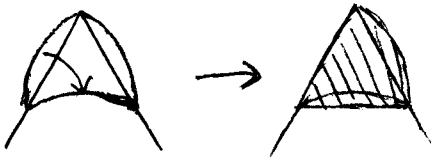


3個

$$8 + 3 + 3 = 14$$

A. 14

(4)



$$\begin{aligned} 2 \times 2 \times 3.1 \times \frac{1}{6} \times 3 \\ = 6.2 \end{aligned}$$

A. 6.2

(5) 1人で3時間(180分)の仕事 → 1分に①の仕事とすると全部で180の仕事

Aさんは2時間(120分)のうち2人に仕事を教えたので

$$120 - 5 \times 2 = 110 \text{ --- } A \text{ は } 110 \text{ の仕事} \rightarrow \text{残り } 70 \text{ の仕事}$$

Bは2時に来右ので  $60 - 5 = 55$  の仕事 → 残り15の仕事

Cは説明を聞く5分を加えて  $15 + 5 = 20$  台前 --- 2時40分に来た

$$2 \text{ 時 } 40 \text{ 分} - 2 \text{ 時 } 5 \text{ 分} = 35 \text{ 分}$$

A 15分

②: 仕事を教えるAだけでなく教わる方も5分のロス

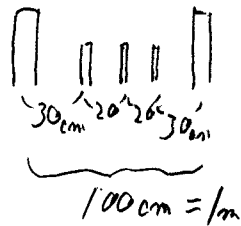
13 (1) ①  $60.9 \div 35 = 1.74$

A. マチネシム

②  $40g + 7.8g = 5.08 \dots$

A. 5.1

(2)



$5 \times 2 \times 3.1 = 31m \dots$  円周

直径

$31 \div 1m = 31 \text{ 本}$

$3 \text{ 本} \times 31 = 93$



A. ① 31 ② 93

(2) 文房具  $45^\circ \rightarrow \left(\frac{1}{8}\right)$

$3000 \text{ 円} \times \left(\frac{1}{8}\right) = \underline{\underline{375 \text{ 円}}}$

お菓子 = 文房具 + 105円 =  $\left(\frac{1}{8}\right) + 105 \text{ 円}$

本 = お菓子  $\times 2 = \left(\frac{1}{8} + 105\right) \times 2 = \left(\frac{1}{4}\right) + 210 \text{ 円}$

その他 = お菓子  $\times \frac{1}{2} = \left(\frac{1}{8} + 105\right) \times \frac{1}{2} = \left(\frac{1}{16}\right) + 52.5 \text{ 円}$

合計  $\left(\frac{1}{8}\right) + \left(\frac{1}{8}\right) + 105 + \left(\frac{1}{4}\right) + 210 + \left(\frac{1}{16}\right) + 52.5 \text{ 円}$

$= \left(\frac{9}{16}\right) + 367.5 \text{ 円}$

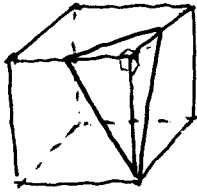
$= 3000 \times \frac{9}{16} + 367.5 = 2055 \text{ 円}$

貯金の角度 =  $360^\circ \times \frac{3000 - 2055}{3000} = \underline{\underline{113.4^\circ}}$

A. ① 375円 ②  $113.4^\circ$



(2) 4秒後  $\rightarrow 4\text{cm}$

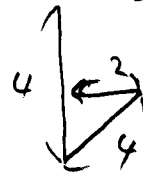
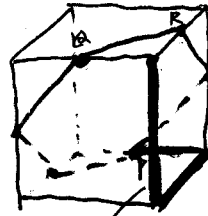


$$2 \times 2 \times \frac{1}{2} \times \text{高さ} 4 \times \frac{1}{3} = \frac{8}{3} = 2\frac{2}{3}$$

A.  $2\frac{2}{3}\text{cm}^3$

(3)  $4 \times 4 \times 4 = 64\text{cm}^3$  ... 立方体

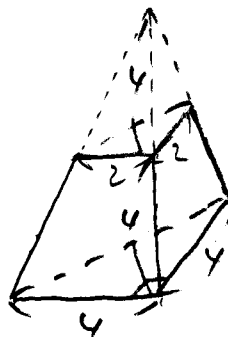
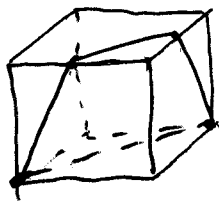
$32\text{cm}^3$  ... 立方体の半分  $\rightarrow$



$$4 + 4 + 2 = 10$$

A 10秒後.

(4) 8秒後



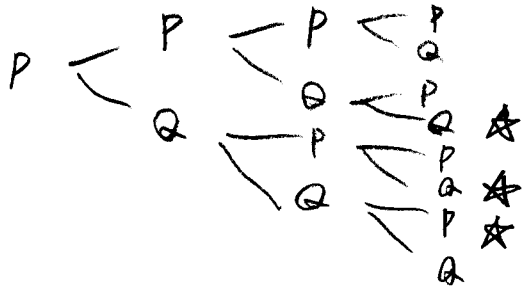
$$4 \times 4 \times \frac{1}{2} \times 8 \times \frac{1}{3} - 2 \times 2 \times \frac{1}{2} \times 4 \times \frac{1}{3}$$

$$= \frac{64}{3} - \frac{8}{3} = \frac{56}{3} = 18\frac{2}{3}$$

A.  $18\frac{2}{3}\text{cm}^3$

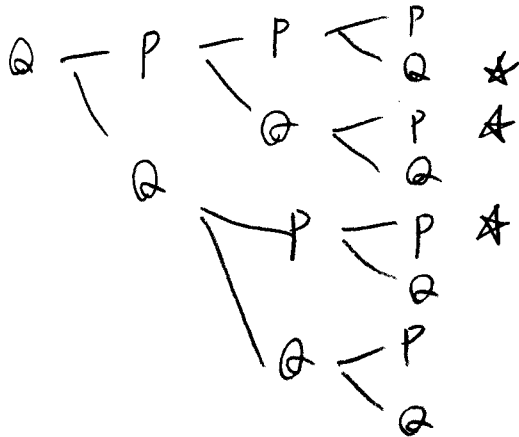
5

(1) 1回目 2回目 3回目 4回目



$$2 \times 2 \times 2 \times 2 = 16$$

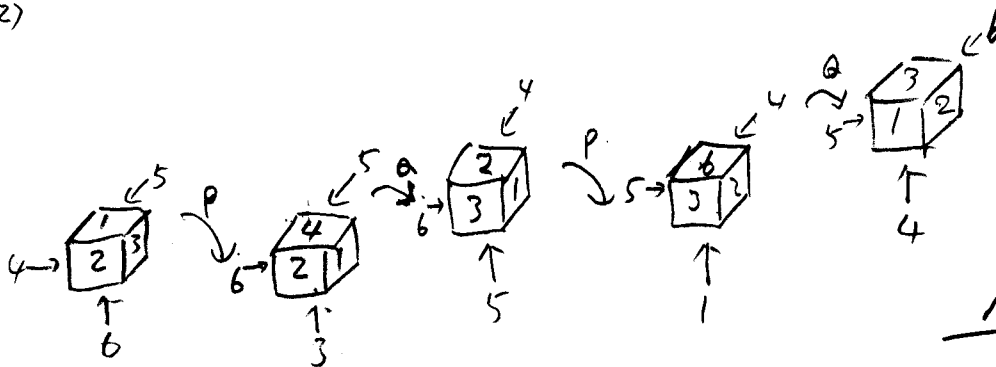
① 16



★ FP

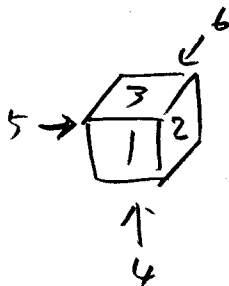
② 6

(2)



A. 3

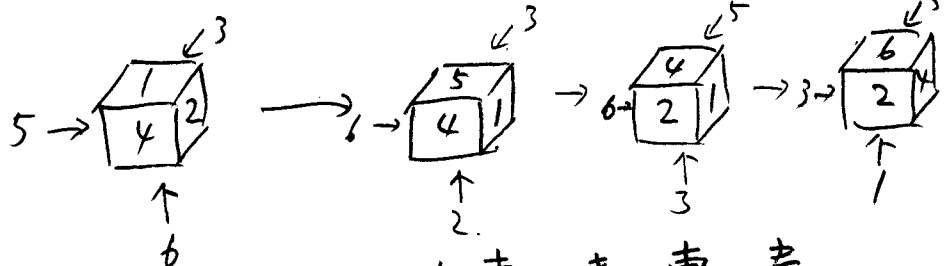
(3)



6が1つなくとも3回は動かさないとダメ

さらに回転方向と直角な面は動かさないで

まずQ(裏) → 次にP(表) → Q → P



A 裏, 表, 裏, 表