

$$\begin{aligned}
 1. (1) & \left\{ \frac{1}{2} - 3 \div \left(4 + 2 \div \underset{\left(\frac{1}{8}\right)}{0.125} \right) \right\} + \underset{\left(\frac{1}{40}\right)}{0.025} \\
 & = \left\{ \frac{1}{2} - 3 \div \left(4 + \underset{20}{2 \times 8} \right) \right\} + \frac{1}{40} \\
 & = \left(\frac{1}{2} - \frac{3}{20} \right) + \frac{1}{40} \\
 & = \frac{7}{20} + \frac{1}{40} = \frac{14}{40} + \frac{1}{40} = \frac{15}{40} = \underline{\underline{\frac{3}{8}}}
 \end{aligned}$$

$$(2) \left\{ 1\frac{3}{5} + 2\frac{2}{3} \times \left(1\frac{5}{6} - \square \right) \right\} \times 2.25 - 0.8 = 9$$

$$④ = 9 + 0.8 = 9.8$$

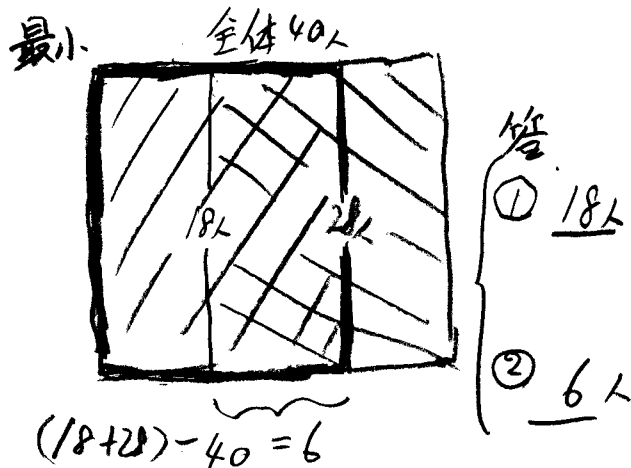
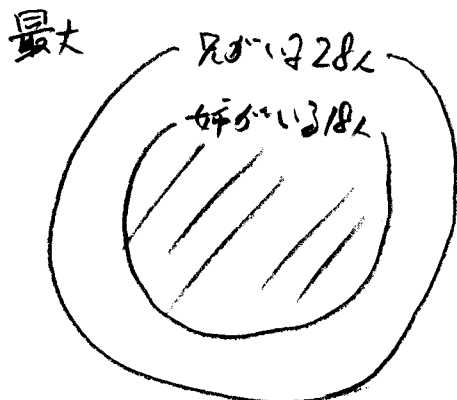
$$③ = 9.8 \div 2.25 = \frac{49}{5} \div 2\frac{1}{4} = \frac{49}{5} \times \frac{4}{9} = \frac{196}{45}$$

$$② = \frac{196}{45} - 1\frac{3}{5} = \frac{196}{45} - \frac{72}{45} = \frac{124}{45}$$

$$① = \frac{124}{45} \div 2\frac{2}{3} = \frac{124}{45} \times \frac{3}{8} = \frac{31}{30}$$

$$\square = 1\frac{5}{6} - \frac{31}{30} = \frac{55}{30} - \frac{31}{30} = \frac{24}{30} = \underline{\underline{\frac{4}{5}}}$$

$$(3) \quad 40 \times 0.7 = 28 \text{人} \cdots \text{兄がいる}, \quad 40 \times 0.45 = 18 \text{人} \cdots \text{姉がいる}$$



(4) ① 1段 2段 3段

$$1 + 3 + 5 + \dots$$

$\xrightarrow{+2}$ $\xrightarrow{+2}$ \uparrow
 $1+2 \times 1$ $1+2 \times 2$

10段

$$1 + 2 \times (10 - 1) = 19$$

$$= (1 + 19) \times 10 \div 2 = 100$$

A 100

②

1段 2段 3段

$$\triangle + \triangle + \triangle + \dots$$

\downarrow \downarrow \downarrow
 1×3 2×3 3×3

□段

$$\downarrow$$

$$\square \times 3$$

$$= 3 \times (1 + \dots + \square)$$

□個

$$= 3 \times \frac{(1 + \square) \times \square}{2} = 2583$$

$$(1 + \square) \times \square = \frac{2583 \times 2}{3} = 1722 = 42 \times 41$$

$$\begin{array}{r} 3 \overline{) 1722} \\ \underline{2 584} \\ 7 287 \\ \underline{7 41} \end{array}$$

A 41

2 ①

A : B : 差

3 : 4 : 1

3 : 5 : 2

↑
差が等しい

$\times 2$

A : B

6 : 8

3 : 5

2杯と5杯の差 3杯と4杯の3が等しい

最初 $(6+2) : (8+2) = 8 : 10$ 杯

$$(8-1) : (10-1) = 7 : 9$$

A 7 : 9

(2)

$$8 \text{ 杯} + 10 \text{ 杯} = 18 \text{ 杯} = 2.7 \text{ L}$$

$$2.7 \div 18 = 0.15 \text{ L}$$

A 150ml

(2)

$$\frac{3}{2} \times 2 + \frac{9}{2} \times 2 + \frac{150}{9} \times 2 + \frac{9}{160}$$

$$= 3 \times 3 \times 3.14 \times \frac{1}{6} \times 2 + 6 \times 9 \times 2$$

$$+ 9 \times 9 \times 3.14 \times \frac{150}{360} \times 2 + 9 \times 9 \times 3.14 \times \frac{1}{6}$$

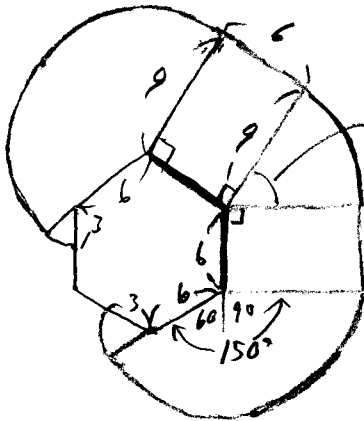
$$= \left(3 + \frac{135}{2} + \frac{27}{2}\right) \times 3.14 + 108$$

$$= 84 \times 3.14 + 108$$

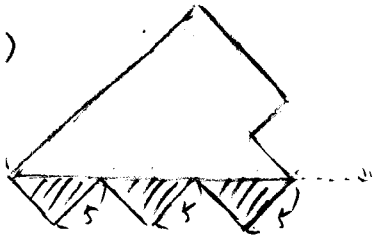
$$= 263.76$$

$$= 371.76$$

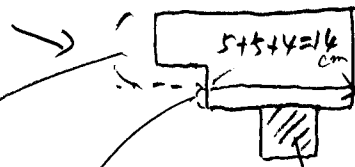
$$\underline{A. 371.76 m^2}$$



5. (1)



$$\frac{1}{3} \times 5 \times 5 \times \frac{1}{2} \times 10 \times 3 = 375 cm^3$$



$$375 - 250 = 125 cm^2$$

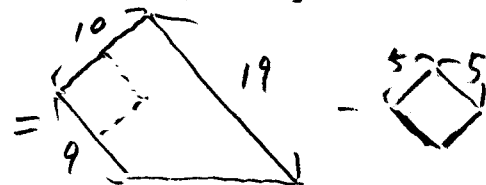
$$5 \times 5 \times 10 = 250$$

$$125 \div (14 \times 10) = \frac{25}{28} cm$$

$$10 cm - \frac{25}{28} = 9 \frac{3}{28}$$

$$\underline{A. 9 \frac{3}{28} cm}$$

(2)



$$= (9 + 19) \times 10 \times \frac{1}{2} - 5 \times 5$$

$$= 115 (cm^2)$$

$$115 \times 10 = 1150$$

$$\underline{A. 1150 cm^3}$$