

$$\begin{aligned}
 (1) (1) \quad & 10 - \underbrace{8 \div 2}_{4} + 3 \times (\underbrace{13 - 3 \times 2}_{6}) \\
 & = 10 - 4 + 3 \times 7 \\
 & = 6 + 21 \\
 & = \underline{\underline{27}}
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{26}{57} \times 2 \frac{1}{34} \div \frac{13}{19} \div 1 \frac{6}{17} \\
 & = \frac{\overset{2}{\cancel{26}}}{\underset{3}{\cancel{57}}} \times \frac{\overset{3}{\cancel{69}}}{\underset{2}{\cancel{34}}} \times \frac{\overset{1}{\cancel{19}}}{\underset{1}{\cancel{13}}} \times \frac{\overset{1}{\cancel{17}}}{\underset{1}{\cancel{23}}} \\
 & = \underline{\underline{1}}
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & \left(1\frac{5}{6} - 0.75\right) \times 2 \div 13 \\
 & = \left(\frac{11}{6} - \frac{3}{4}\right) \times 2 \div 13 \\
 & = \frac{\overset{1}{\cancel{11}}}{\underset{12}{\cancel{6}}} \times 2 \times \frac{\overset{1}{\cancel{1}}}{\underset{13}{\cancel{13}}} \\
 & = \underline{\underline{\frac{1}{6}}}
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & 248 \div 31 + 24.8 \div 31 + 2.48 \div 31 + 248 \div 3.1 + 248 \div 0.31 \\
 & = 248 \div 31 + \frac{1}{10} \times 248 \div 31 + \frac{1}{100} \times 248 \div 31 + 248 \div 31 \times 10 + 248 \div 31 \times 100 \\
 & = \frac{\overset{8}{\cancel{248}}}{\underset{1}{\cancel{31}}} \left(1 + \frac{1}{10} + \frac{1}{100} + 10 + 100\right) \\
 & = 8 \times 111.11 \\
 & = \underline{\underline{888.88}}
 \end{aligned}$$

$$[2] (1) 2 + (20 - \square) \times \frac{4}{9} = 6\frac{8}{9}$$

①      ②

$$\textcircled{2} = 6\frac{8}{9} - 2 = 4\frac{8}{9} = \frac{44}{9}$$

$$\textcircled{1} \times \frac{4}{9} = \frac{44}{9} \quad \textcircled{1} = \frac{44}{4} = 11$$

$$20 - \square = 11$$

$$\square = 20 - 11 = 9$$

A. 9

$$(2) \quad \underbrace{12345}_{\downarrow} \times 6789$$

$$\underbrace{12345}_{\downarrow} \times 10 \times 6789 = 1234.5 \times 67890$$

A. 67890

(3) 定価も ① だと 2割引もまだOKなので

原価 ② 見込んだ利益 ③

$$0.2 \div 0.8 = 0.25$$

A. 25(%)

(4)

1, 1, 1, 3, 5, 9, 17,  $\square$ , 57, ...

$$1+1+1=3$$

$$1+1+3=5$$

$$1+3+5=9$$

$$3+5+9=17$$

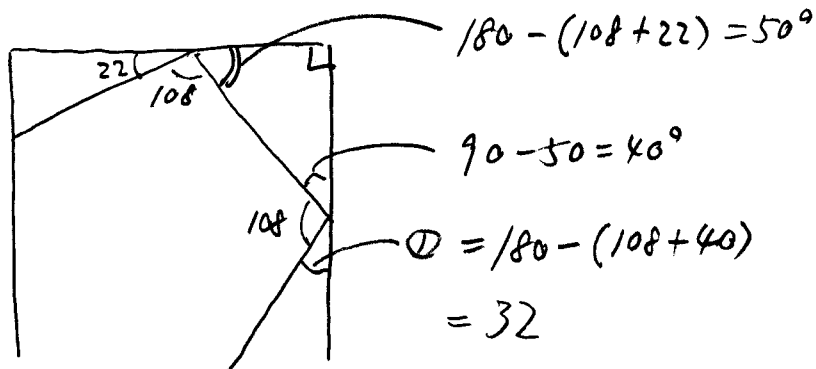
$$5+9+17=31$$

$$9+17+31=57$$

17-17は 前3つの数の和

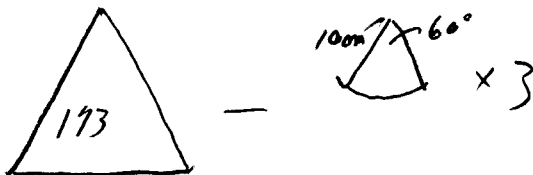
A. 31

- [3] (1) 正五角形の1つの外角  $= 360 \div 5 = 72^\circ$   
 1つの内角  $= 180 - 72 = 108^\circ$



A. 32 (度)

(2)



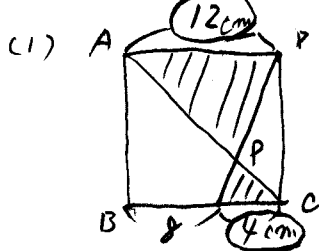
$$= 173 - 10 \times 10 \times 3.14 \times \frac{1}{6} \times 3$$

$$= 173 - 157$$

$$= 16$$

A. 16 (cm<sup>2</sup>)

[4]



左の斜線部の2つの三角形の相似比は

$$12 : 4 = 3 : 1$$

A. 3:1

(2)



$$= 12 \times 12 \times \frac{1}{2} = 72$$



$$72 \times \frac{1}{3+1} = 18$$



$$18 \times \frac{8}{8+4} = 12$$

A. 12 (cm<sup>2</sup>)

[5]

$$(1) \left. \begin{array}{l} CD \text{間の道のり} = 900 - 100 = 800 \text{ m} \\ \text{速さ} = 45 - 5 = 40 \end{array} \right\} 800 \div 40 = 20$$

A 20分

(2)

$$\left. \begin{array}{l} AB \quad 1000 \div 50 = 20 \text{ 分} \\ BC \quad 900 \div 45 = 20 \text{ 分} \\ CD \quad \quad \quad 20 \text{ 分} \\ DE \quad 900 \div 35 = 20 \text{ 分} \end{array} \right\} (1 \text{ 回の歩き}) + (5 \text{ 分の休み}) = 25 \text{ 分}$$

$$3 \text{ 時間} \div 25 \text{ 分} = 180 \div 25 = 7 \text{ 回と } 15 \text{ 分}$$

A 7回

$$(3) \quad 1000 + 900 + 800 + 700 + 600 + 500 + 400$$

$$= (1000 + 400) \times 7 \div 2 = 4900 \text{ m} \cdots 7 \text{ 回分}$$

$$\text{次の5分は速さが } 50 - 5 \times 7 = 15 \cdots \text{分速 } 15 \text{ m}$$

$$15 \times 5 = 75 \text{ m}$$

$$4900 + 75 = 4975$$

A 4975 m

[6] (1)  $69 \div 2 = 34 \text{ あり } 1$

A. 34個

(2)  $69 \div 5 = 13 \text{ あり } 4$

A. 13個

(3)  $69 \div 14 = 4 \text{ あり } 13$  (2と7の公倍数4個)

A. 4個

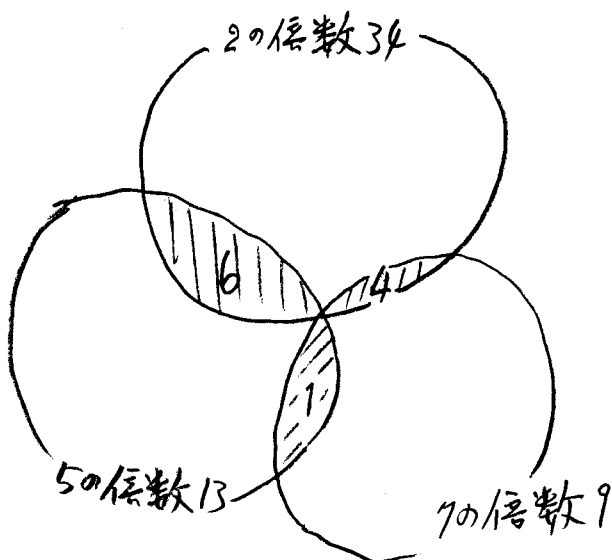
(4)  $90 = 2 \times 5 \times 7$  ... 90と約分できずのは 2, 5, 7 の倍数

$69 \div 10 = 6 \text{ あり } 9$  ... 2と5の公倍数 6個

$69 \div 7 = 9 \text{ あり } 6$  ... 7の倍数 9個

$69 \div 35 = 1 \text{ あり } 34$  ... 5と7の公倍数 1個

2, 5, 7の公倍数 なし



$34 + 13 + 9 - (6 + 4 + 1)$

$= 45$

A. 45個

[7] (1) 全体を①回りとすると、70人は②, 図書館  $\frac{13}{30}$

|    |   | 図書館             |                 |   |
|----|---|-----------------|-----------------|---|
|    |   | ○               | ×               |   |
| 70 | ○ |                 | $\frac{1}{2}$   | ② |
| 10 | × |                 | 8人              | ③ |
|    |   | $\frac{13}{30}$ | $\frac{17}{30}$ | ① |

$$② - \frac{1}{2} = ③$$

$$\underline{A 20\%}$$

(2)

$$\frac{17}{30} - \frac{1}{2} = \frac{1}{15} \dots 8人は全体の \frac{1}{15}$$

$$8 \div \frac{1}{15} = 120$$

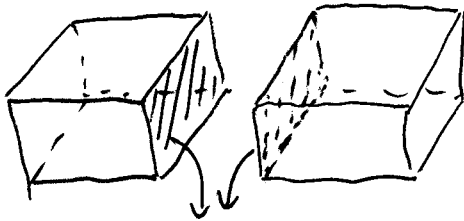
$$\underline{A 120人}$$

$$(3) ③ - \frac{1}{15} = \frac{7}{30}$$

$$120 \times \frac{7}{30} = 28$$

$$\underline{A 28人}$$

[8]  
(1)



A 2面分 じ、え  $(2 \times 3) \times 2 = 12$

A 12 cm<sup>2</sup>

(2) 上と同じ考えて B 4面分

$(2 \times 10) \times 4 = 80$

A. 80 cm<sup>2</sup>

(3) 立体の表面積 =  $(2 \times 3) \times 2 + (2 \times 10) \times 2 + (3 \times 10) \times 2$

$= 12 + 40 + 60 = 112 \text{ cm}^2$

$112 \times 3 = 336 \text{ cm}^2$  ... 出来た立体の表面積の和

$336 - 112 = 224$  ... じ、え左分

$$\left. \begin{array}{l} A \text{に平行に1回切ると } 12 \text{ cm}^2 \\ B \text{に平行に } \quad \quad \quad 40 \text{ cm}^2 \end{array} \right\} \text{じ、え}$$

ついかめ算

$(224 - 12 \times 7) \div (40 - 12)$

$= 140 \div 28$

$= 5$  ... Bに平行

$$A \left\{ \begin{array}{l} A \text{に平行に } 2 \text{ 回} \\ B \text{に平行に } 5 \text{ 回} \end{array} \right.$$