

□

$$(1) 15 - \{35 - 7 \times (12 - 8)\} = \underline{\underline{8}}$$

$$(2) \left(\frac{3}{4} - \frac{3}{8}\right) \times \left(\frac{2}{5} - \square\right) = \frac{1}{10}$$

$$\left(\frac{6}{8} - \frac{3}{8}\right) \times \left(\frac{2}{5} - \square\right) = \frac{1}{10}$$

$$\frac{3}{8} \times (\quad) = \frac{1}{10}$$

$$(\quad) = \frac{1}{10} \div \frac{3}{8} = \frac{1}{10} \times \frac{8}{3} = \frac{4}{15}$$

$$\frac{2}{5} - \square = \frac{4}{15}$$

$$\square = \frac{2}{5} - \frac{4}{15}$$

$$= \frac{6}{15} - \frac{4}{15} = \underline{\underline{\frac{2}{15}}}$$

$$(4) 7.5 \div 2\frac{2}{9} - \{36 \times (\frac{5}{6} - 0.7) - 3\}$$

$$= \frac{3\frac{15}{2}}{\frac{10}{2}} \times \frac{9}{20} - \{36 \times (\frac{5}{6} - \frac{7}{10}) - 3\}$$

$$= \frac{27}{8} - \{36 \times \frac{4}{30} - 3\}$$

$$= \frac{27}{8} - \left(\frac{24}{5} - \frac{15}{5}\right)$$

$$= \frac{27}{8} - \frac{9}{5}$$

$$= \frac{135}{40} - \frac{72}{40}$$

$$= \frac{63}{40} = \underline{\underline{1\frac{23}{40}}}$$

$$(3) 4.2 \div 0.54 \times 1.5 + 1.44 \div 0.8 \div 0.4$$

$$= \frac{42}{10} \div \frac{54}{100} \times \frac{15}{10} + \frac{144}{100} \div \frac{8}{10} \div \frac{4}{10}$$

$$= \frac{42}{10} \times \frac{100}{54} \times \frac{15}{10} + \frac{144}{100} \times \frac{10}{8} \times \frac{10}{4}$$

$$= \frac{35}{3} + \frac{9}{2}$$

$$= \frac{70}{6} + \frac{27}{6}$$

$$= \frac{97}{6}$$

$$= \underline{\underline{16\frac{1}{6}}}$$

$$(5) 4.2 \times \frac{6}{7} - 2\frac{1}{4} \div \square = 0.45$$

$$4.2 - \frac{9}{4} \div \square = 0.45$$

$$\frac{9}{4} \div \square = 4.2 - 0.45$$

$$= 3.75$$

$$\square = \frac{9}{4} \div 3.75$$

$$= \frac{9}{4} \div 3\frac{3}{4}$$

$$= \frac{3}{4} \times \frac{4}{15} = \underline{\underline{\frac{3}{5}}}$$

(6) $\square \div 0.7 = 2.4$ 残り 0.02

$$\begin{array}{r} 2.4 \\ 0.7 \overline{) \square} \\ \underline{1.68} \quad \leftarrow 0.7 \times 2.4 = 1.68 \\ 0.02 \end{array}$$

$$\square = 1.68 + 0.02 = \underline{\underline{1.7}}$$

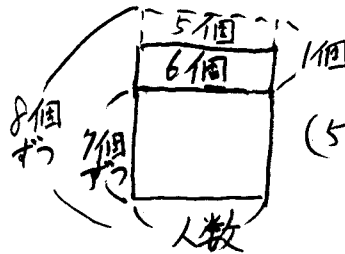
(7) 3時間 $2\frac{5}{4}$ 分 \div $22\frac{30}{4}$ 分 (8)
 $(180\frac{1}{2})$ $(\frac{1}{4}\text{分})$ $22\frac{1}{2}\text{分}$

$$= 182\frac{1}{4} \div 22\frac{1}{2}$$

$$= \frac{729}{4} \div \frac{45}{2}$$

$$= \frac{81}{2} \times \frac{2}{45}$$

$$= \underline{\underline{8.1}}$$



$$(5+6) \div 1 = 11$$

$$\underline{\underline{A. 11(人)}}$$

(9)

→ 短針より72°先に短針と同じ速さで動く針を考えると

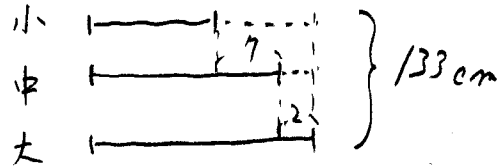
その針に長針が追いつくのは

$$(60 + 72) \div (6^\circ - 0.5^\circ) = 132 \div \frac{11}{2} = 132 \times \frac{2}{11} = 24$$

\uparrow \uparrow
 長針 短針

$$\underline{\underline{A. 24(分後)}}$$

② (1)



$$\begin{aligned} \text{大} &= (133 + 7 + 2 + 2) \div 3 \\ &= 144 \div 3 = 48 \end{aligned}$$

A. 48 cm

(2) 原価を①とし、定価 = ①.25

利益が1割 → 売価 = ①.1

$$\begin{aligned} \text{①.25} - \text{①.1} &= \text{①.15} \dots \dots \text{原価を①とし、大時} \\ &\quad 270 \text{円は} \text{①.15} \text{円} \end{aligned}$$

$$\text{原価} \times 0.15 = 270$$

$$270 \div 0.15 = 1800$$

A. 1800円

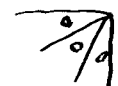
(3) 1クラス40人の平均64点 → $64 \times 40 = 2560$ 点 ... 全員の合計

$$\begin{aligned} \text{男子計算} \quad (2560 - 62 \times 40) \div (67 - 62) &= 16 \text{人} \dots \text{女子} \\ &\quad \begin{array}{r} 2480 \\ 80 \end{array} \end{aligned}$$

$$40 - 16 = 24 \text{人} \dots \text{男子}$$

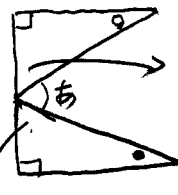
A. 男子 24人 女子 16人

(4)

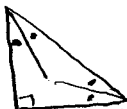


$$\circ = 90 \div 3 = 30^\circ$$

→



$$90 - 30 = 60^\circ$$



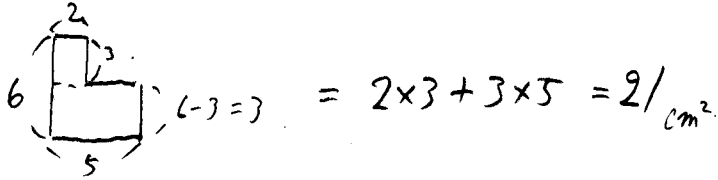
$$\bullet = 45 \div 2 = 22.5^\circ$$

$$90 - 22.5 = 67.5^\circ$$

$$\begin{aligned} \text{あ} &= 180 - (60 + 67.5) = 52.5 \\ &\quad \begin{array}{r} 127.5 \end{array} \end{aligned}$$

A. 52.5度

(5)



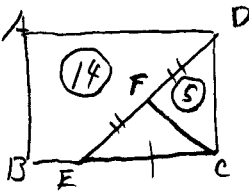
$9 \times 10 - 21 = 69 \text{ cm}^2$

$69 \times 12 = 828$

A. 828 cm³

3

(1)



四角形ABEDは⑭と⑤と三角形DFCは⑤と⑤と⑤

DF = EFより三角形EFCは⑤

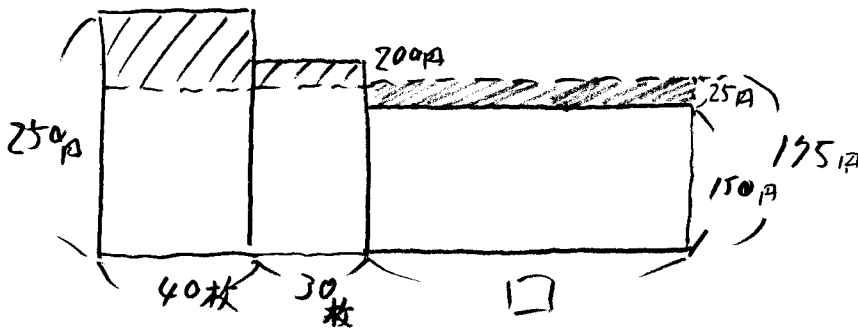
全体で ⑭ + ⑤ + ⑤ = ②④ $10 \times 6 = 60 \text{ cm}^2$

四角形ABED = $60 \times \frac{14}{24} = 35$

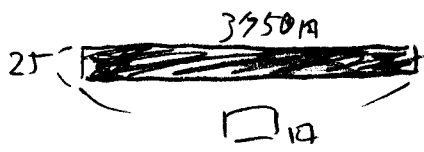
A. 35 cm²

(2)

$10000 \div 40 = 250$ 40枚ずつは1枚250円



$75 \times 40 + 25 \times 30 = 3750 \text{ 円}$



□ 円

$3750 \div 25 = 150 \text{ 枚}$

$40 + 30 + 150 = 220$

A 220 枚

(3) 満水を1とする
1分で $A+B = \frac{1}{54}$

$$A \times 3 + B \times 4 = \frac{1}{15}$$

$$A \times 3 + B \times 3 = \frac{1}{54} \times 3 = \frac{1}{18}$$

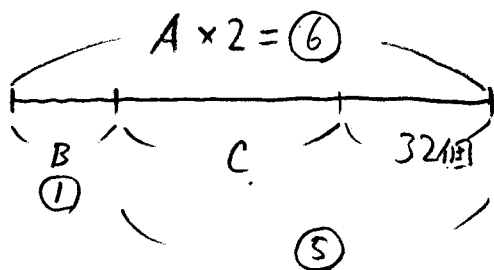
差 $B = \frac{1}{15} - \frac{1}{18} = \frac{6}{90} - \frac{5}{90} = \frac{1}{90}$... 1分でBは全体の $\frac{1}{90}$

$$A = \frac{1}{54} - \frac{1}{90} = \frac{5}{270} - \frac{3}{270} = \frac{2}{270} = \frac{1}{135}$$
 ... 1分でAは全体の $\frac{1}{135}$

$$1 \div \left(\frac{1}{135} \times 5 \right) = 27$$

A. 27分

(4) Bは人の個数を①回りとするとAは人の3倍なので③回りと。C = ⑤ - 32



$$C = ⑤ - 32$$

$$A + B + C = 94$$

$$\begin{matrix} \downarrow & \downarrow & \downarrow \\ ③ & + & ① & + & (⑤ - 32) = 94 \end{matrix} \rightarrow ⑨ - 32 = 94$$

$$⑨ = 94 + 32 = 126$$

$$① = 126 \div 9 = 14 \text{ ... Bは人}$$

$$③ = 14 \times 3 = 42 \text{ ... Aは人}$$

$$⑤ - 32 = 14 \times 5 - 32 = 38 \text{ ... Cは人}$$

$$\begin{cases} A \div \text{人 } 42 \text{ 個} \\ B \div \text{人 } 14 \text{ 個} \\ C \div \text{人 } 38 \text{ 個} \end{cases}$$

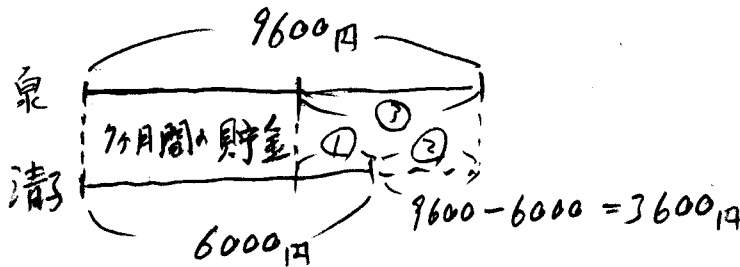
(5)

| | | | | | | | | | | | | | | |
|-----------------|---|---------------------------------------|----------|---|-------|-----------------|----------|---|----------------|-----------------|----------|---|-------|-------|
| 日 151 Δ13 | } | → 目標 + 13 = 151 → 目標 = 151 - 13 = 138 | 木 142 | } | → 142 | | | | | | | | | |
| 月 Δ2 | | | } | | | → 138 + 2 = 140 | 金 Δ10 | } | 138 + 10 = 148 | | | | | |
| 火 Δ6 | | | | | | | } | | | → 138 - 6 = 132 | 土 165 | } | → 165 | |
| 水 0 | | | | | | | | | | | } | | | → 138 |

$$151 + 140 + 132 + 138 + 142 + 148 + 165 = 1016$$

A. 1016個

(6)



$$\textcircled{1} = 3600 \div 2 = 1800 \text{円}$$

$$6000 - 1800 = 4200 \text{円} \dots 7ヶ月間の貯金$$

$$4200 \div 7 = 600 \text{円}$$

A. 600円

(7) ① 定期船 A → B 1時間30分 $30 \text{km} \div 1\frac{1}{2} \text{時間} = 20 \text{km/時}$... 下り

B → A 2時間30分 $30 \text{km} \div 2\frac{1}{2} = 12 \text{km/時}$... 上り

$$(20 + 12) \div 2 = 16 \text{km/時 (静水)} \quad (20 - 12) \div 2 = 4 \text{km/時 (川)}$$

静水時 川
A 時速 16km 時速 4km

② 観光船 A → B 2時間30分 → 12km/時 ... 下り
 $12 - 4 = 8$

A 時速 8km

③ 10時までの1時間で2つの船は $30 - 12 = 18 \text{km}$ のへだたり。

定期船の上り
 $18 \div (12 + 12) = \frac{18}{24} = \frac{3}{4} \text{時間} = 45 \text{分}$
↑
観光船の下り

A 10時45分