

② $\frac{11^{11}}{1210}$ $11^1 = 11$ $1210 = 11^2 \times 10$
 $11^2 = 121$
 $11^3 = 1331$

$= \frac{11^{109} \times 11^2}{11^2 \times 10} = \frac{11^{109}}{10} = \frac{1}{10} \rightarrow 10 \text{ หลัก } 010104$

③ $a_1 + a_2 = 10$

$a_{n+2} - a_n = 3 \rightarrow a_3 - a_1 = 3$

$a_3 = a_1 + 3$

$a_4 - a_2 = 3$

$a_4 = a_2 + 3$

$a_5 - a_3 = 3$

$a_5 = 3 + a_3 = 3 + (a_1 + 3)$

$a_6 = a_4 + 3 = 3 + (a_2 + 3)$

\vdots
 $a_{40} - a_{38} = 3$

$a_{40} = a_{38} + 3$

$a_1 + a_2 + a_3 + \dots + a_{40} =$

$10 + (a_1 + 3) + (a_2 + 3) + (3 + (a_1 + 3)) + (3 + (a_2 + 3)) + \dots$

$\frac{3}{7} + \frac{15}{7}$
 52

⑨ $1 - x < -\frac{3}{7}$ $-\frac{3}{7} < 7 - x$
 $\frac{10}{7} < x$ $x < \frac{52}{7}$ ⑦

$[\frac{14}{7}, \frac{49}{7}] \rightarrow [2, 7]$
 ⑥

⑤ $2 + 2^2 + 2^3 + 2^4 + \dots + 2^n = 510$

$2 + 2^2 + 2^3 + 2^4 + \dots + 2^n = 510 ; r = 2$

$S_n = \frac{a_1(1-r^n)}{1-r}$

$510 = \frac{2(1-2^n)}{1-2}$

$-510 = 2 - 2^{n+1}$

$2^{n+1} = 512$

$2^{n+1} = 2^9$

$n+1 = 9$

$\therefore n = 8$

⑩ $x \log_5 x^2 = \frac{25}{x^3}$
 $x \frac{\log x}{2 \log 5} =$

⑭ 50% \rightarrow 400

$\frac{100}{100} x = 400$
 $x = \frac{400 \times 100}{140}$

⑮ $N = \frac{8}{t+1}$ $t(\text{min})$ $\text{max} = 120 \text{ s}$
 $\hookrightarrow t = \frac{3}{2} \text{ s}$

$N_3 = \frac{8}{3+1}$

$\therefore N_3 = 2 \text{ g}$

$N_2 = \frac{8}{2+1}$

$\therefore N_2 = \frac{8}{3} \text{ g}$

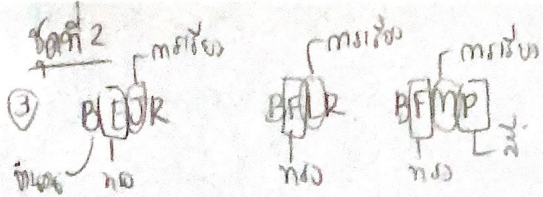
$t_1 x_3 = t_3 - t_2$

เวลา 3 นาที

$V = \frac{S}{t} \rightarrow \text{อัตราเร็วของรถที่วิ่งมาตลอด}$
 $= \frac{2 \text{ g}}{3 \text{ min}}$

$50 \times 600 = a + b$
 $30000 =$

นิ้ว W



F

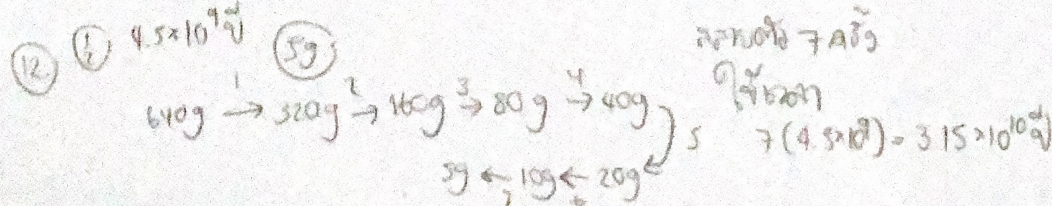
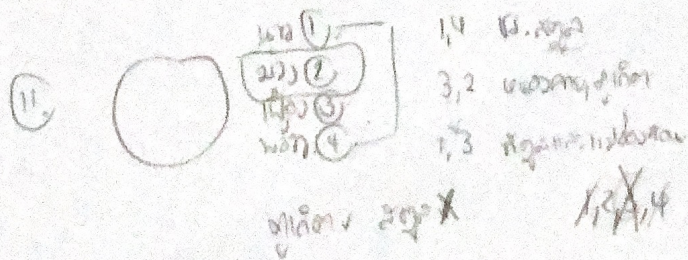
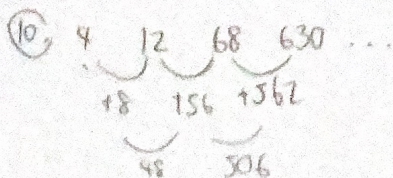
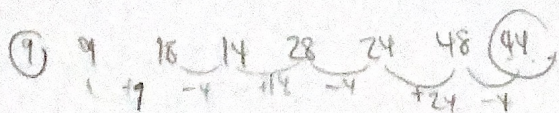
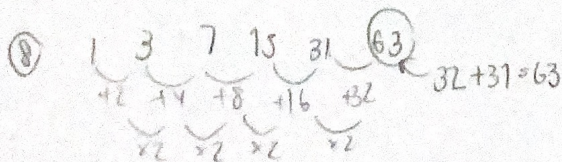
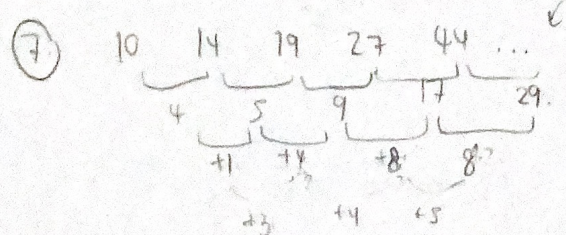
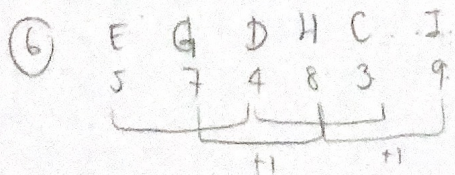
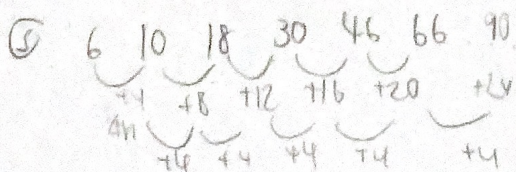
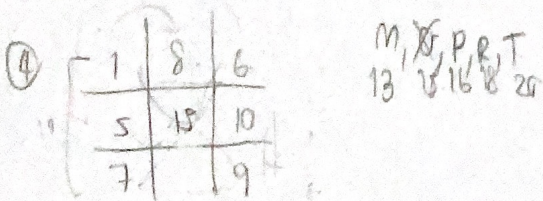
13) $v = \frac{S}{t}$ $v = 9 \text{ m/s}$

$S = \frac{1}{2} \times 12 \times (60 + 120)$

$S = 1080 \text{ m}$

$t = 120 \text{ s}$

$v = \frac{S}{t} = \frac{1080}{120} = 9 \text{ m/s}$



25) $D < A$ 3mg
 $C < E < L < B < F < A < G$
 ✓ D X

24) $\frac{C}{1} \quad \frac{F}{2} \quad \frac{D}{3} \quad \frac{B}{4} \quad \frac{G}{5} \quad \frac{A}{6} \quad \frac{E}{7}$
 $5+7=12$

23) $4g \rightarrow 100^\circ C, 350 \text{ mL}$

$\rho_{\text{water}} = \frac{4g}{350 \text{ mL}} = 0.01 \text{ g/mL}$

$\% \text{ density} = \frac{0.01}{0.975} \times 100 = 1.03\%$

26) $\text{Oil: } \frac{22}{20} = \frac{22 \times 100}{20} = 110\%$
 $\text{Cream: } \frac{19}{15} = \frac{19 \times 100}{15} = 126.67\%$
 $\text{Water: } \frac{26}{30} = \frac{26 \times 100}{30} = 86.67\%$
 $\text{Alcohol: } \frac{12}{20} = \frac{12 \times 100}{20} = 60\%$

เลือก/เลือก 60-100% / เลือก

$\therefore 1104 \rightarrow$ เลือก/เลือก

27) $2\% \rightarrow < 7 \text{ mg/kg}$

น้ำหนัก 50 kg

\rightarrow ต้องการบาล์ม < $7 \times 50 = 350 \text{ mg}$

บาล์มที่มี 350 mg

$\% \text{ Lidocaine} \rightarrow$ 100 mg $\rightarrow 1 \text{ mL}$
 $350 \text{ mg} \rightarrow \frac{1}{100} \times 350 = 3.5 \text{ mL}$

28) $BMI = \frac{\text{น้ำหนัก}}{(\text{ความสูง (m)})^2}$

$25 = \frac{m}{1.6^2}$
 $m = 64 \text{ kg}$

น้ำหนัก ideal $64 - 8 = 56 \text{ kg}$

$\text{mg/dL} = \frac{\text{mg}}{10^3 \text{ L}} = 10 \text{ (mg/L)}$

29) $\frac{2.2 \text{ mg}}{2 \text{ mL}} = \frac{2.2 \text{ mg}}{2 \times 10^{-3} \text{ L}} = 1100 \text{ mg/L}$

$\frac{3.1 \text{ mg}}{4 \text{ mL}} = \frac{3.1 \text{ mg}}{4 \times 10^{-3} \text{ L}} = 775 \text{ mg/L}$

$\begin{matrix} < 1000 \\ 1000 - 2500 \\ > 2500 \end{matrix}$ (mg/L)
 \rightarrow 2-1000-1000

30) $BMI = \frac{\text{kg}}{\text{m}^2}$
 $A = \frac{80}{1.9^2} = 22.16 \text{ หนัก}$

$B = \frac{99}{1.8^2} = 30.56 \text{ หนักมาก}$

$C = \frac{78}{1.69^2} = 27.31 \text{ หนัก}$

31) $[NaCl] = 5M$
 $\rightarrow [NaCl] = 0.5M @ 1000 \text{ mL}$

$C_1 V_1 = C_2 V_2$
 $5V = (0.5)(1000)$
 $V = \frac{500}{5}$
 $V = 100 \text{ mL}$

18) $\frac{5 \text{ mL}}{5 \text{ mL}} \quad \frac{5 \text{ mL}}{5 \text{ mL}} \quad \frac{5 \text{ mL}}{5 \text{ mL}}$

19) 9 n.w.

น้ำหนัก 1000 g

1

8

$\frac{21}{21}$ หนัก!

21) $\frac{1000}{1000}$

น้ำหนัก

1000