

2.8

$$1 + 2^2 + 2^3 + 2^4 + \dots + 2^n = 510$$

$$2^9 = 512$$

$$1 + 2^2 + 2^3 + 2^4 + \dots + 2^8 = 510$$

$$2^8 = 256$$

$$n = 8$$

$$\left. \begin{aligned} a_1 + a_2 + a_3 + a_4 + \dots + a_{19} + a_{20} &= 13 \\ a_1 - a_2 + a_3 - a_4 + \dots + a_{19} - a_{20} &= 17 \end{aligned} \right\} \oplus$$

การบวกการลบ

(3)

$$2a_1 + 2a_3 + 2a_5 + \dots + 2a_{19} = 30$$

$$a_1 + a_3 + \dots + a_{19} = 15$$

$$\therefore a_2 + a_4 + \dots + a_{20} = -2$$

4 6

$$\left. \begin{aligned} a_1 + a_2 &= 10 \\ a_{n+2} - a_n &= 3 \end{aligned} \right\}$$

$$n \in \{1, 2, 3, \dots\}$$

กรณี 4

$$\text{กรณี } (a_1 + a_2) \dots a_{20}$$

$$\left. \begin{aligned} 2 \\ 38 \\ 3 \\ 14 \end{aligned} \right\}$$

$$= 117$$

$$\text{กรณี } n=1 \quad a_{n+2} - 3 = a_n$$

$$\left. \begin{aligned} a_3 - a_1 &= 3 \\ a_1 + a_2 &= 10 \end{aligned} \right\}$$

$$a_3 + a_2 = 13$$

$$10 + a_3 + a_4 + a_5 + a_6$$

$$10 + (a_5 - 3) + (a_6 - 3) + (a_7 - 3) + \dots + (a_{20} - 3)$$

$$10 + -3(38) + a_5 + a_6 + \dots + a_{20}$$

$$-104 + a_5 + a_6 + \dots + a_{20}$$

$$-104 + (a_7 - 3) + (a_8 - 3) + a_9$$

$$\text{กรณี } n=2 \quad \left. \begin{aligned} a_4 - a_2 &= 3 \\ a_1 + a_2 &= 10 \\ a_1 + a_4 &= 13 \end{aligned} \right\}$$

$$\text{กรณี } n=3 \quad \left. \begin{aligned} a_5 - a_3 &= 3 \\ a_2 + a_3 &= 13 \\ a_2 + a_5 &= 16 \end{aligned} \right\}$$

$$\frac{1111}{9210} = 2$$

$$\frac{1111}{11 \times 10} = \frac{11}{10}$$

5

$$\frac{(x-3)^2}{9} + \frac{(y-5)^2}{25} = 1$$

sum 12/11/14

6

7

$$1-x < -\frac{3}{7} < 7-x$$

max 24.10.20  $x \begin{cases} + \\ - \\ 0 \end{cases}$

$$7-7x < -3 < 49-7x$$

$$7-7x < -3 \quad -3 < 49-7x$$

$$10 < 7x$$

$$\frac{10}{7} < x$$

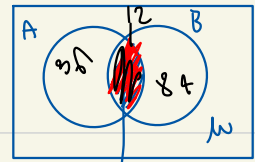
$$7x < 52$$

$$x < \frac{52}{7}$$

$$\frac{10}{7} < x < \frac{52}{7}$$

$$1\frac{3}{7} < x < 7\frac{1}{7}$$

2, 3, 4, ..., 12



36  
12  
84

$$\frac{1}{4}A = \frac{1}{8}B$$

$$2A = B$$

or  
m

$$(A-B) \cup (B-A) = 12$$

$$3A \cup \frac{1}{8}B$$

$$\frac{3A}{4} + \frac{7}{8}B = 120$$

$$\frac{3A}{4} + \frac{7A}{4} = 120$$

$$\frac{10A}{4} = 120$$

$$A = 12 \times \frac{4}{10} = 48$$

$$36 + 12 + 84 = 132$$

1  
36  
84  
12  
132

$$y = f(x)$$

$$y = ax^2 + bx + c$$

↓

เมื่อแทน  $x \rightarrow y = 0$

9

$$0 = ax^2 + bx + c$$

$$x = -4 \text{ or } 2$$

$$(x+4)(x-2) = 0$$

$$x^2 + 2x - 8 = 0$$

เมื่อแทน  $y = 0$

$$\therefore c = 16$$

$$x^2 + 2x + 16 = 0$$

$$N = 8 \quad (+ \text{ or } -)$$

$$N = \frac{8}{3}$$

$$N = \frac{8}{4}$$

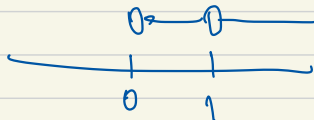
เมื่อแทน  $2 \times$

3 หรือ 4 แทน  $2 \times$

1 หรือ 2 แทน  $\frac{2}{3}$

11

$x > 0$      $66: x \neq 1$



max →

$$\frac{x - 800}{2} = \frac{40}{100}$$

$$x - 800 = 320$$

$$\frac{x}{2} = 1120$$

$$x = 2240$$

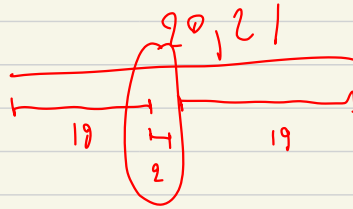
ឆ្នាំ 40 ឆ្នាំ

ឧទាហរណ៍ 65 A: 1144 Rank 19

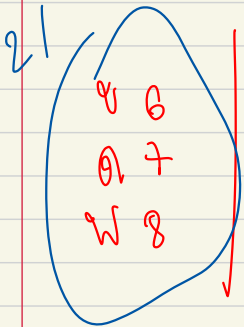
ឧទាហរណ៍ 62 A: 1144 20

ឧទាហរណ៍ 60 A: 1144 21

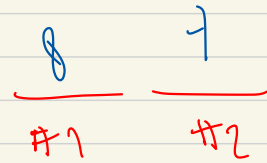
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$$\frac{62+60}{2} = 61$$

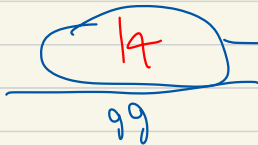


ឆ្នាំ 20 ឆ្នាំ កំរិតស្ទើរ



$$P(E) = \frac{n(E)}{n(S)} \rightarrow \frac{2}{3} = \frac{2}{3}$$

16



ឧទាហរណ៍ កំរិតស្ទើរស្របតាម 6

- 6, 16, 26, 36, 46, 56, 60, 62, 64, 66, 68, 76, 86, 96

$$83a + 7b + c = 486$$

$$82a + b + c$$

$$a, b, c \in \{1, 4, 7, \dots, 99\}$$

$$\begin{matrix} 7 & 3 & 3 \\ \sim & \sim & \sim \\ 481 & 42 & 3 \end{matrix}$$

$$\begin{matrix} 486 \\ 473 \\ 460 \end{matrix} \quad \begin{matrix} 486 \\ 471 \\ 458 \end{matrix}$$

$$1 = w \times r \times t$$

$$1 = 88 + 60 + 60$$

$$1 = 148$$

$$7(8+6+6)$$

$$4 \times 148 = 7(8+6+6)$$

$$48 = 8+6+6$$

$$98 = 6+6$$

19

$$\begin{array}{l} \bar{x} = \frac{17}{7} \\ \text{med} = 2 \\ \text{mod} = 2 \end{array} \quad \begin{array}{l} + \\ + \\ 7 \end{array}$$

$a, b$  वाच्य  $I^+$   $a = \dots 15x$   $50x$   
 $b = \dots 50y$   $50y$   
 $15 = 200$   
 $50$   
 $3$   $4$

$50(600) = 30000 = 30000$   
 $30000 = 30000$

1

1	8	6
5	15	10
7	X	9

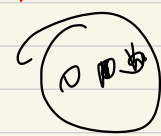
$\rightarrow 29$   
 $\rightarrow 30$   
 $\rightarrow 16+X$



$25(10)(18)$   
 $-(164)$   
 $\frac{10}{19} \frac{3}{3}$

$2(6)(11)(17)$   
 $\frac{1}{1} \frac{1}{1} \frac{1}{1}$

$2(6)(7)(16)$



$28 \leftarrow$   
 $13$   
 $29+X$   
 $25$   
 $4$   
 $56$   
 $7$   
 $392$

$4$   $8$   $12$   $16$   $20$   $24$   
 $6$   $10$   $18$   $30$   $46$   $66$

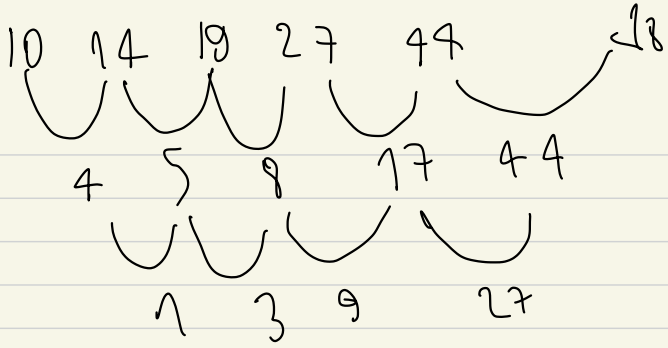
$56$   $630$   
 $(12)$   $67$   $12$

$9$   $18$   $14$   $28$   $24$   $49$

$1$   $3$   $7$   $15$   $31$   $63$   
 $2$   $4$   $8$   $16$   $25$   $32$

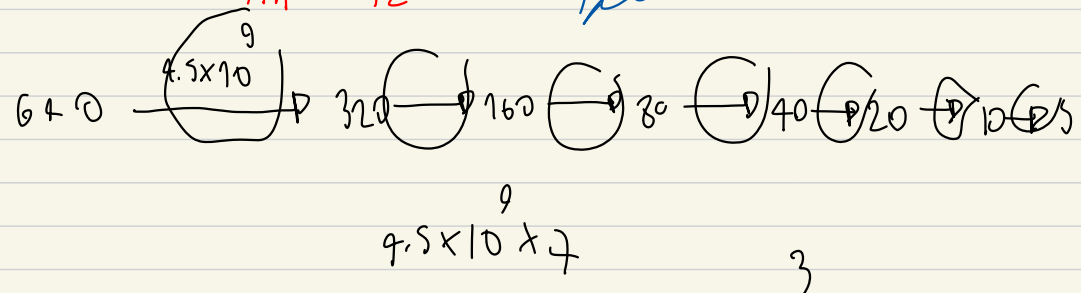
$4$   $5$   $8$   $17$   
 $10$   $14$   $19$   $27$   $44$

$90$   
 $58$   
 $68$   
 $562$   
 $1$   
 $567$   
 $63$

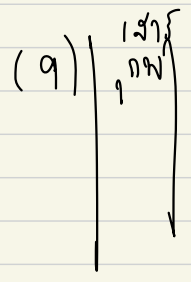


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 $arm\ S=vt$

ถ้า  $V_{\text{เฉลี่ย}} = \frac{S_{\text{all}}}{T_{\text{all}}} = \frac{S_{\text{all}}}{120} \sim \frac{90 \times 120}{120} = 9$



น ม ฟ พ  
 น/พ → เซ็ทลอบ/สตุล  
 ฟ/ม → ออกรากคอบ/อูเลต  
 ม/น → สตุล/ไม่ง



(6)

ฉีก พท ๖๗  
 ก ล  
 ก ล  
 ล ล  
 ล ล  
 ล ก

ล ก ล - ล  
 ล ก ล - กคคค  
 ล ก ล - ลลลล

A B C D E F G

{

C F D E A D

—————→

for

2n

... U

}

X