

1000

A	240	$I^A I^A / I^A_i$	= 24%
B	210	$I^B I^B / I^B_i$	= 21%
O	500	ii	= 50%
AB	50	$I^A I^B$	= 5%



406,000

$W^2$

$$q^2 + 2qr$$

$$AB = 0.040657$$

$$q^2 + 2qr$$

$$2pq$$

$$p = \sqrt{A+0} - \sqrt{0}$$

$$= \sqrt{0.24 + 0.5} - \sqrt{0.5}$$

$$= 0.15$$

$$q = \sqrt{B+0} - \sqrt{0} = 0.1355081$$

$$r = \sqrt{0} = \sqrt{0.5}$$

$$2pr / p^2$$

$$2pr = 0.216$$

$$\frac{312}{20} = 0.234636$$

1000

R B ~~~~~

r b -

M m ~~~~~

m m -

RrMm Rrmm

Rrmm | 400

RrMm | 45

rrmm | 55

rrMm | 460

RRmm Rrmm

Rr RR Mm mm

AA aa

Aa Aa

AA Aa aa  
1 2 1

AaBb

aaBb

Aa aa

Bb bb

AaBb

AaBb

aaBb

aaBb

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

$$-3 < 49 - 7x$$

$$7x < 52$$

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

$$a_1 = \frac{a}{r-1} + \frac{a}{r^{15}} + \frac{a}{r^{17}}$$

2

4

8

16

32

64

128

256

512

1024

2048

4096

8192

16384

32768

65536

131072

262144

524288

1048576

2097152

4194304

8388608

16777216

33554432

67108864

134217728

268435456

536870912

1073741824

2147483648

4294967296

8589934592

17179869184

34359738368

68719476736

137438953472

274877906944

549755813888

1099511627776

2199023255552

4398046511104

$$2(1+r+r^2) \quad 7-x < \frac{-3}{7}$$

$$7-7x < -355$$

$$7x < -10$$

$$\frac{a_{n+1}}{a_n} = \frac{x < -10}{7}$$

$$\begin{aligned} a_1 + a_1 & \\ a_1 + a_1 r & \\ a_1 + a_1 r^2 & \\ \vdots & \\ a_{20} + a_{20} r^{19} & \end{aligned}$$

$$a_1 + a_{17} = 10$$

$$a_{n+1} - a_n = 3$$

$$\frac{1+r}{r^2-1} = \frac{10}{3}$$

$$\frac{1+r}{(r-1)(r+1)} = \frac{10}{3}$$

$$\begin{aligned} a_n &= \frac{1}{5} \\ r &= 4 \end{aligned}$$

$$x(1+r+r^2+r^3+\dots+r^{19}) = 13$$

$$x(1-r+r^2-r^3+\dots-r^{19}) = 17$$

$$\begin{aligned} &1+r+r^2+\dots+r^{19} \\ &-(1+r+r^2+\dots+r^{19}) + r(r+r^2+r^3+\dots+r^{17}) \end{aligned}$$

$$\begin{aligned} a_1 + r a_1 &= 10 & a_{n+1} - a_n &= 3 \\ a_1(1+r) &= 10 & a_n(r-1) &= 3 \end{aligned}$$

$$2 + 8 + 32$$

$$2(1+4^1+4^2+4^3+\dots+4^{39}) = 9$$

$$1.4 \quad 2.4$$

$$a_1(1+r) = 10$$

$$a_n(r^n - 1) = 3$$

$$a_n = 1 \rightarrow r = 2$$

$$2 \rightarrow r^2$$

$$3 \rightarrow r^2 \sqrt{2}$$

$$\frac{a_1}{a_n(r-1)} = \frac{10}{3}$$

$$3a_1 = 10a_n(r-1)$$

$$a_n = \frac{3a_1}{10r-10}$$

$$\frac{12}{3} (1+2+4+8)$$

$$2^{29+1} - 1$$

$$m = \frac{5-9}{3-0}$$

$$\rightarrow \frac{4}{3}$$

$$y - 5 = \frac{4}{3}(x)$$

$$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$$

$$(h+c, k), (h-c, k)$$

$$(7, 5), (-1, 5)$$

$$\begin{matrix} F_1 \\ (3, 9) \\ \times \\ (0, 5) \end{matrix} \quad \begin{matrix} F_2 \\ (3, 1) \end{matrix}$$

$$9-5 = m(3-0)$$

$$\frac{4}{3} = m$$

$$0 = \frac{4}{3}x - y + 5$$

$$d = \frac{|-5+5|}{\sqrt{16+9}}$$

$$4-1+9$$

$$\left| \frac{4}{3}(3) + (-1)(1) + 5 \right| = \frac{8}{3}$$

$$\sqrt{\frac{16}{9} + (-1)^2}$$

$$2^{n+1} - 1 = 501$$

$$2^{n+1} = 502$$

$$\frac{16}{9} + 1$$

$$\frac{25}{9} = \frac{5}{3}$$

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

$$\frac{24}{5}$$

$$y-9 = \frac{4}{3}(x-3)$$

$$y-9 = \frac{4}{3}(x-1)$$

$$y-9 = \frac{4}{3}x - 4$$

$$y-9 = \frac{4}{3}x - 1$$

$$y = \frac{4}{3}x + 5$$

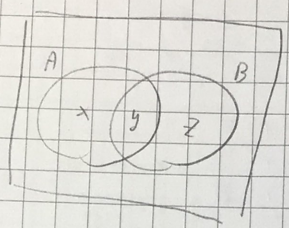
$$A = \frac{4}{3} \quad 0 = \frac{4}{3}x - y + 5$$

$$0 = \frac{4}{3}x - y + 5$$

$$B = -1$$

$$C = 5$$

- 1.
- 2.
3. 98
- 4.
- 5.



$$\frac{7}{21} \times \frac{7}{70}$$

$$\frac{56}{420} \quad \frac{14}{105} \quad \frac{2}{15}$$

$x = 3A$   
 $y = A$

$$x+z = 120 = 4A \Rightarrow A = 30$$

$z = 7B = 7 \times 10 = 70$   
 $y = B$

$$x+y+z = ?$$

$$y = 30$$

600	21	110	
7	8	6	$\rightarrow 21$

$3A + 7B = 120$

$$3A + 7A = 110$$

$N(E)$

$$N(S) = 21 \times 10 = 210$$

~~Handwritten scribble~~

$$y = ax^2 + bx + c \quad a < 0$$

$$0 = 16a + 16b + c \rightarrow c = -4 \rightarrow y = 16a^2 + 16b$$

0

$$-4 = c$$

$$c = 2 \rightarrow -2 = 16a + 16b$$

$$2 = c$$

- Ⓐ
- Ⓑ
- Ⓒ
- Ⓓ

$$a = 64a + 4b$$

$$2 = 8 - 4 = 2.67 \quad -16a = b$$

4

$$A = \{\emptyset, \{\emptyset\}, \{0\}, \{0, \emptyset\}\}$$

$$P(A) = \{\emptyset, \{\emptyset\}, \{\{0\}\}, \{\emptyset, \{0\}\}, \{\emptyset, \{\emptyset\}\}, \{\emptyset, \{0, \emptyset\}\}, \{\{0\}, \emptyset\}, \{\{0\}, \{0\}\}\}$$

$$\{\{0\}, \{0, \emptyset\}, \{\emptyset, \{0, \emptyset\}\}, \{\emptyset, \{0, \emptyset, \emptyset\}\}\}$$

6				
14	}	12%	1	1
34		2		
46		0		
56				
60		1	24	2

$$6(x+y+z) = 1$$

$$24x = 1$$

$$x+y+z = 4x$$

$$y+z = 3x$$

$$x \cdot \log_5 x = \frac{25}{x^3} \cdot \frac{2}{3}$$

$$2(x+y+z) = 3 = 14$$

$$x+y+z = 4x$$

$$y+z = 3x$$

$$1 = \frac{24}{7} = 3$$

$$4(x+y+z) = \frac{2}{3} \text{ или } 1+3$$

$$2 \begin{array}{|l} 4 \\ \hline 2 \end{array} \begin{array}{|l} 7 \\ \hline 4 \end{array}$$

$$2 \begin{array}{|l} 2 \\ \hline 1 \end{array} \begin{array}{|l} 4 \\ \hline 2 \end{array}$$

$$4 \begin{array}{|l} 1 \\ \hline 1 \end{array} \begin{array}{|l} 2 \\ \hline 1 \end{array}$$

$$\frac{2}{6} \cdot \frac{1}{3} = 12 \times 50$$

$$6(x+y+z) = 24x$$

$$x+y+z = 4x$$

$$y+z = 3x$$

$$8x$$

$$8(y+z) = 1$$

$$\frac{2}{1} = \frac{2}{1} \times \frac{2}{3}$$

$$744 \quad (9 \times 1 \times 2) + (7 \times 2 \times 6) + c = 486$$

$$7(9a + 2b) + c = 486$$

$$58 \begin{array}{|l} 150 \quad 250 \quad 1 \\ \hline 3 \quad 5 \quad 3 \\ \hline 15 \end{array}$$

$$150$$

$$400$$

$$50 \begin{array}{|l} 100 \quad 250 \\ \hline 7 \quad 5 \end{array}$$

$$30000 = a \times b$$

$$50 \begin{array}{|l} 150 \quad 270 \\ \hline 3 \quad 4 \end{array}$$

$$100$$

$$50 \begin{array}{|l} 50 \quad 250 \\ \hline 1 \quad 5 \end{array}$$

$$50 \begin{array}{|l} 50 \quad 550 \\ \hline 1 \quad 11 \end{array}$$

$$24$$

$$50 \begin{array}{|l} 50 \quad 400 \\ \hline 3 \quad 8 \end{array}$$

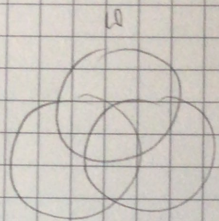
$$x+y+z = 4x$$

$$3x$$

$$6x+6y+6z = 24x$$

$$24x$$

58 2/3     ^     ^  
 96 2/3     ^     ^  
 99 1/3     ^     ^  
                  ^     ^     ^  
                  ^     ^     ^  
                  16   16   16



180     170     180  
 S = 41  
 H  
 S = A

180  
 $\frac{180}{2} = 90$   
 $\frac{90}{2} = 45$   
 $\frac{45}{2} = 22.5$   
 $\frac{22.5}{2} = 11.25$   
 $\frac{11.25}{2} = 5.625$   
 $\frac{5.625}{2} = 2.8125$

11     5     4  
 114   14   16   11   10  
 1.9 x 1.6 = 3.04  
 2.2

(11) 02 12 58 22 12 19 17 15 11 7 5 3 1 0.475

12     15     4     7     0  
 18     12     15     7     1  
 0.04     0.02     0.02  
 7x     2x     2x  
 42     24     14     12     6  
 4     4     4

1709     601     22     1  
 27     29     5     0  
 22     16     24     17     25  
 241     25     68     12     11  
 595     25     8