

10, to 100

integers

②

-2 → (-2) 1  
(2) (-1)

1, 2, -1, -2

2, ~~(-2)~~

10, 11, 12 - - - 99

10 1+1 1+2

|      |      |      |   |   |    |
|------|------|------|---|---|----|
| 10 ✓ | 11 ✓ | 12 ✓ | - | - | 19 |
| 20   | 21   | 22   | - | - | 29 |
| 30   | 31   | 32   | - | - | 39 |
| 40   | 41   | 42   | - | - | 49 |

90 91 92 - - - 99

(1+2+...+9) × 10  
⇒ 45 × 10 = 450

~~99~~  
9(1+2+...+9)  
= 9 × 45  
= 405

450 + 405 + 10 + 10 = 865

→ 856

$$\begin{array}{r} 855 \\ \hline 856 \\ \hline 910 \\ \hline 911 \end{array}$$

- 10 ✓
  - 11 ✓
  - 12 ✓
  - 13 ✓
  - 14 ✓
  - 15 ✓
  - 16 ✓
  - 17 ✓
  - 18 ✓
  - 19 ✓
- ⑩

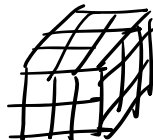
10+11+12 +13 +14 +15 + 16+17+18+19  
+ (0+1+2+...+9) × 10

$$= 10 \left( 0 + 1 + 2 + 3 + \dots + 9 \right) \times 10$$

#  $10 + 11 + \dots + 99$   
 $(1 + 2 + \dots + 99) - (1 + 2 + \dots + 9)$   
 $\Rightarrow \frac{99 \cdot 100}{2} - \frac{9 \cdot 10}{2}$   
 $\Rightarrow 4950 - 45$   
 $\Rightarrow \underline{4905}$

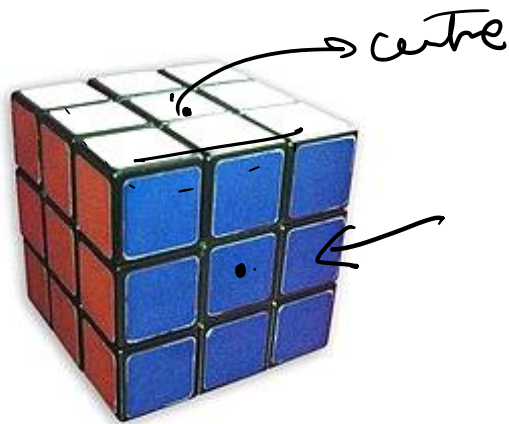
# Identical cube ..

$125 \rightarrow 5^3$



$(1-50)^2$   $(1-10)^2$   
 $(1-50)^3$   $(1-10)^3$

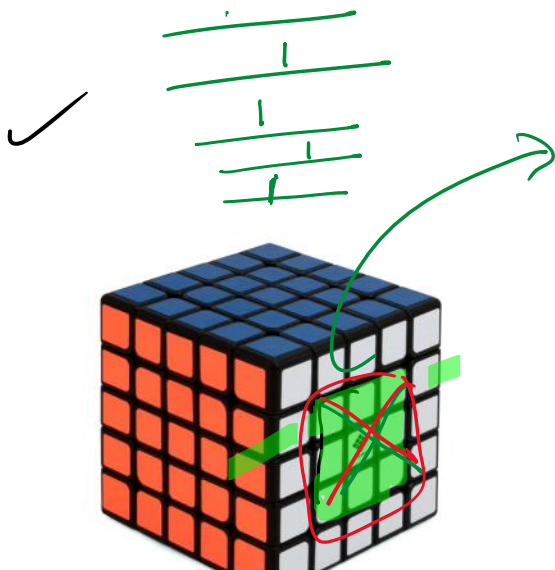




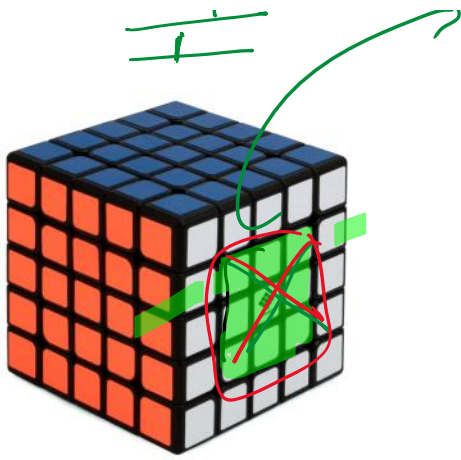
$$\begin{array}{c}
 0 \\
 \hline
 (1-45) \quad (2-15) \quad (2-30) \\
 \hline
 (3-2) = 1^3 = 8 \\
 (5-2) = 3^3 = 27
 \end{array}$$

$$\begin{array}{l}
 5^3 = 125 \\
 n = 5
 \end{array}$$

$$\begin{array}{l}
 (n-2)^3 \\
 = (5-2)^3 = 3^3 = 27
 \end{array}$$



$$\begin{array}{l}
 12^3 = 1728 \\
 \hline
 n = 12 \quad (10)^3 = 1000 \\
 \hline
 \end{array}$$



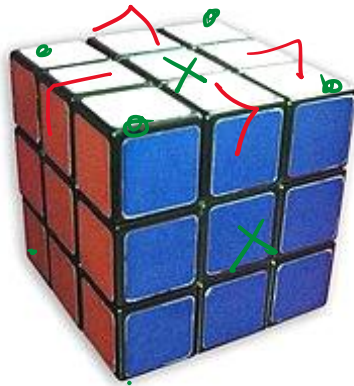
$$12 = \frac{110}{1}$$

$$h=12 \quad (10)^3 = 1000$$

$$\begin{array}{r} 0123456 \\ \hline 16 \textcircled{12} 8 \\ \hline \end{array}$$

$$27 - 8 - 6 - 1 = \textcircled{12}$$

$$\frac{\textcircled{27}}{1}$$

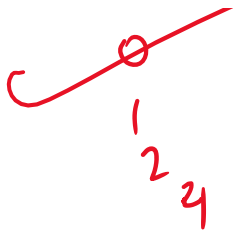


$$\textcircled{\#}$$

$$8 \textcircled{5} \times 87 \times 89 \times 91 \times 9 \textcircled{5} \times 9 \textcircled{6} \textcircled{4} \times 29$$

$$\textcircled{100}$$

$$2.5 \times 4 = \textcircled{10}$$



$25 \times 4 \Rightarrow \underline{(10)}$   
 $\frac{2}{3} \textcircled{2} (-1)$

$$\frac{192}{2}$$

~~6~~  $\Rightarrow$

$\textcircled{2.3.}$

$$\frac{191}{3}$$

$$\frac{2.2.2.2 \dots 2}{3} = \frac{(-1)^{191}}{3} = -\frac{1}{3}$$

$$\frac{-1+3}{\Rightarrow \textcircled{2}}$$

$$\frac{191 \times 2}{3 \times 2} \rightarrow 2 \times 2 \Rightarrow \textcircled{4}$$

$$\Rightarrow \frac{2}{3}$$

#  $\frac{192}{2}$   
6

$\textcircled{2^1}$  down 6 der 2 ✓  $2^{192}$   
 $2^2$  der 6 le 4 ✓  
 $2^3$  der 6 le 2 ✓  
 $2^4$  der 6 - 4 ✓

$$2^1$$

$$2^2$$

$$2^3$$

$$7$$

$$7$$

$$7$$

$$2$$

$$4$$

$$1$$

$$25^2$$

$2^3$   
 ~~$2^3$~~   
 $2^4$   
 $2^5$   
 $2^6$

$+$   
 $7$   
 $7$   
 $7$   
 $7$   
 $7$

$1$   
 $2$   
 $4$   
 $1$

$25^2$   
 $= 625$

$\frac{25}{1.3}$   
 $625$

~~78~~

$\frac{27}{3}$   
 $649$

247

2,4,7

~~$a+b+c$~~   
 ~~$d$~~

~~$a-b-c$~~   
 ~~$d$~~

$2,4,7$   
 $24,27$   
 $42,72$

~~47~~  
 $74$

$3C_1 + 3C_2 + 3C_3$   
 $\Rightarrow 2^3 - 1 = 7$

$\times 2$

$247 \Rightarrow 3! = 6$

$2,4,7 \rightarrow 1$   
 $2,4,7 \rightarrow 3$   
 $2,4,7 \rightarrow 6$   
 $2,4,7 \rightarrow 6$

24716