

۱۶۳

$$\sqrt{c} = \sqrt{\frac{a}{b}} \times \frac{c}{d}$$

(۲) انبساطی حجم (ب) ضلع پر

$$a \times a \times \pi \times b$$

$$\frac{V}{4} = \frac{15 \times 3 \times 4 \times 4}{4}$$

$$\frac{240}{4} = 4$$

$$\Rightarrow V = 27000$$

کجائی =  $p \times h$

$\downarrow$                        $\downarrow$   
 ۳ × ۹ × ۲                      ۱۵

$$\frac{\text{کجائی}}{4} = \frac{3 \times 2 \times 9 \times 15}{4} = 900$$

۴. علیت  
درجہ درجہ

$$900 \times 3 = 2700$$

$$\frac{V}{4} = 10 \times 10 \times 20 = 2000$$

مکعب

$$V = 10 \times 10 \times 3 \times 20 = 4000$$

انبساطی  
ضلع انتظامی = ۱۰



۱۶۵

$$V = 2 \times 5 \times 10 = 100$$

①

ابعاد سه برابر طبق نکته در دفتر

②

$$V = \frac{2 \times 5 \times 10}{27} = \frac{100}{27}$$

$$h = \frac{10}{3} = 2 \quad r = 4$$

③

$$V = 4 \times 4 \times 3 \times 2 = 96$$

$$S = 4 \times 2 \times 3 \times 2 = 48$$

$$S_{\text{کل}} = S + 2 \times S = 48 + 48$$

$$2 \times 48 \times 3 = 144$$

$$S = p \times h = 2 \times 2 \times 3 \times 5$$

④

$$S_{\text{کل}} = S \Rightarrow$$

⑤

$$f \times f = \frac{A \times h}{4} \Rightarrow h = f$$

$$S = a \times a \quad \text{طبق نکته}$$

⑥

SATURDAY

$$S = S_{\text{چین}} + 2 \times S_{\text{یک طرفه}} \quad \text{اداره ب}$$

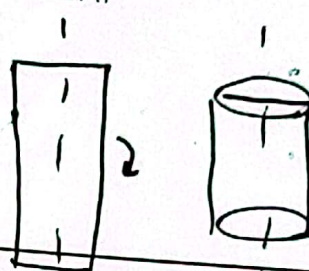
$$S_{\text{کل}} = 10 \times 2 \times 20 + 2 \times 10 \times 20$$

SUNDAY

$$S = 10 \times 2 \times 3 \times 20 + 2 \times 10 \times 6 \times 3$$

استان

MONDAY



۱۴۴

⑤

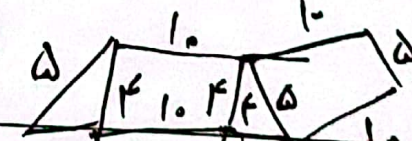
TUESDAY

$$r = \frac{\text{عرض}}{2} \quad h = \text{طول}$$

$$V = \frac{\text{عرض}}{2} \times \frac{\text{عرض}}{2} \times 3 \times \text{طول}$$

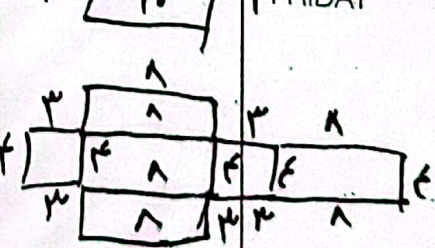
WEDNESDAY

$$V = \frac{2}{2} \times \frac{3}{2} \times 3 \times 4,5 \quad \text{درستی کلب}$$



THURSDAY

FRIDAY



Elipon



1480

$$r \times \frac{a}{r} + r \times \frac{a}{r} + \frac{a}{r} \times r a +$$

$$\frac{a}{r} \times r a = r \times \frac{a}{r} \times r a =$$

$$\boxed{r a^2} \rightarrow r \text{ جے } \textcircled{9}$$

$$r \times a \times a + r \times a \times a =$$

$$r \times r \times a \times a = \boxed{r a^2} \rightarrow r \text{ جے } \textcircled{10}$$

$$\frac{r a^2}{r a^2} = 1 \text{ نسبت } \textcircled{11}$$

$$V = r \times r \times \pi \times h \textcircled{1}$$

$$S = r \times r \times \pi \times h \textcircled{2}$$

$$\frac{V}{S} = \frac{r \times r \times \pi \times h}{r \times r \times \pi \times h} = \frac{r}{r} = \frac{1}{r}$$

$$\pi = r \Rightarrow 9 \text{ } \epsilon r = r \times r \times r \times r$$

$$r \times r \approx 10 \text{ } \epsilon, 44$$

$$r \approx 10$$

$$\epsilon \text{ (جے) } = 4 = \text{جے } \textcircled{11}$$

$$r \times r = (r + r + \epsilon) \times r = 14r$$

اصول P

SATURDAY  $\uparrow$  1480

$$r \times r = (r + r + \epsilon) \times r = 14r \textcircled{12}$$

$$r = \epsilon \times \omega \times 4 = 12. \textcircled{13}$$

SUNDAY

$$\frac{r \times a \times a}{4 \times a \times a} = \frac{r}{4} \Rightarrow$$

MONDAY

$$\frac{12.}{x} = \frac{r}{4} \Rightarrow r x = 4 \times 12.$$

$$x = \frac{4 \times 12.}{r} = 18.$$

TUESDAY

$$\frac{V}{S} = \frac{r}{r} \Rightarrow$$

$$a \times a \times a = 9 \times 12 \times 14$$

WEDNESDAY  $r \times r \times r \times \epsilon \times \epsilon \times \epsilon$

$$a = r \times \epsilon = 12 \textcircled{14}$$

$$r + r + 1 + r + r = 12 \textcircled{15}$$

|  |                          |
|--|--------------------------|
| THURSDAY                                     | FRIDAY                   |
| $V = \omega \times \omega \times r \times r$ | $r = \text{جے} = \omega$ |
| $h = \text{جے} = r$                          |                          |

$$\Rightarrow \frac{V}{S} = \frac{r \times r \times r \times h \times \pi}{a \times a \times h \times \pi} = 1$$



(13)  $V = a \times b \times c$   
 متغير  $\Rightarrow a \times b \times c = 144$   
 $14c = 144 \Rightarrow c = \frac{144}{14}$   
 $c = 9$

(14)  $\frac{V}{a \times b} = \frac{a \times a \times a}{a \times b \times c}$   
 $\frac{a \times b \times c}{a \times b} = \frac{a \times a \times a}{a \times b \times c} \Rightarrow$   
 $c = \frac{a \times a \times a}{a \times b \times c} \Rightarrow$   
 $\Rightarrow a \times a - \frac{a \times a \times a}{c \times b \times c} = \frac{a \times a \times a}{c \times b \times c}$

$\frac{V}{a \times b} = \frac{a \times a}{c \times a \times a} = \frac{c}{a}$

(17)  $S = S_1 + 2 \times S_2$   
 $S = (2+0+4+6) \times \Delta = 10$   
 $2 \times S = \frac{(0+4) \times 2}{2} = 11$   
 $S = 10 + 2 \times 11 = 102$

SATURDAY  
 $\frac{S}{V} = \frac{r \times r \times \pi \times h}{r \times r \times \pi \times h}$  (12)

SUNDAY  
 $\Rightarrow \frac{V}{S} = \frac{r}{r} \Rightarrow$   
 $\frac{r}{r} = \frac{144}{Vr} \Rightarrow r = 4$

MONDAY  
 $S = S_1 + 2 \times S_2 = 148$   
 $\downarrow \quad \quad \quad \downarrow$   
 $Vr \quad \quad \quad r \times r \times r$

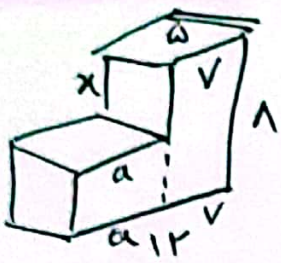
TUESDAY  
 $\frac{14 \times 12 \times h}{2} = 7 \times 12$  (15)

WEDNESDAY  
 $8 \times 2 = 14$   
 $4 \times 2 = 12$   
 $\Rightarrow h = \frac{12}{94}$

|   |                           |
|---|---------------------------|
| THURSDAY<br>$S = (10 \times 4) \times h = 10$<br>متغير نوری | FRIDAY<br>$\frac{12}{94}$ |
|---|---------------------------|

Elipon





۱۷۵

(۲)

$$a + v = 12 \Rightarrow a = 5$$

$$S = x \times a + a \times v + x \times v + v \times a + a \times x + x \times (a - x) + (a - x) \times v + a \times v + a \times a + 12 \times 5 = 372$$

$$\Rightarrow 5x + 25 + 5x + 35 + 54 + 40 - 5x + 40 - 5x + 54 + 40 + 40 = 372$$

سوال کس طرح ہے

۵۴۰ P

۱۹۸

SATURDAY ↑

$$S = 2(a + 10) \times 4 \quad (18)$$

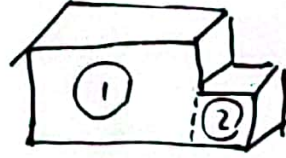
$$S = 120$$

SUNDAY

$$S = 5 \times 10 = 50$$

$$S + S = 120 + 50 = 170$$

MONDAY



(19)

$$S = (4 + 4) \times 2 \times 3 + 2 \times 4 \times 6$$

TUESDAY

$$S = 108$$

$$\Rightarrow S = 108$$

WEDNESDAY

$$S = 4 \times 2 \times 2 = 16$$

$$108 - 16 + 2 =$$

THURSDAY

FRIDAY

$$108 - 16 + 18 = 110$$

(۲)

سوال کس طرح ہے

Elipon



میزیندهای

$\alpha \times \alpha \times \alpha$   
حجم برابر شد

(۴)

$$\alpha \times \alpha \times \alpha = 4^3 \Rightarrow \alpha = 4$$

$$\frac{\sqrt[3]{\frac{V}{\rho}}}{\sqrt[3]{\frac{V}{\rho_0}}} = \frac{12 \times 12 \times 12}{4 \times 4 \times 4} = 27$$

(۵)

$$S_{\text{کل}} = S_{\text{پایه}} + 4 \times S_{\text{دیواره}} = 144$$

(۶)

$$S_{\text{پایه}} = 4 \times 4 \times 4 = 64$$

$$S_{\text{دیواره}} = 4 \times 4 \times 4 = 64$$

$$\frac{V_{\text{استوانه}}}{S_{\text{پایه}}} = \frac{r}{r} \Rightarrow \frac{r}{r} = 4$$
  
$$r = 4 \times r = 12$$

\* نکته \*

(۷)

$$S_{\text{پایه}} = P \times L = 36 \times 3 = 108$$

(۸)

$$P_{\text{پایه}} = 4 \times 4 = 16$$

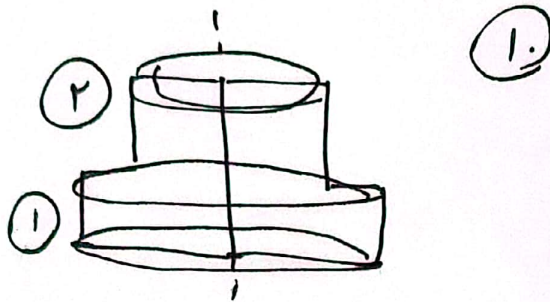
⑨ اگر شعاع را ۳ برابر کنیم

حجم  $3 \times 3$  برابر می شود یعنی

۹ برابر می شود. اما ارتفاع را  $\frac{1}{9}$

برابر کنیم که حاصل ضرب این

نسبت ها = ۱ شود.



۲ ارتفاع کبر ریشه

$$\text{کتابه} = 9 \times 2 \times 3 \times 3 = 144$$

التوانه  
1 شعاع (4+5) ارتفاع

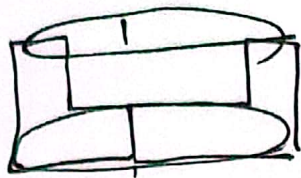
$$\text{کتابه} \text{ ①} = 9 \times 2 \times \pi \times 3 = 54\pi$$

$$\text{کتابه} \text{ ②} = 5 \times 2 \times \pi \times 5 = 50\pi$$

شعاع (1-3) ارتفاع

$$50\pi + 54\pi = 104\pi$$





(11)

حجم حاصل و شد  
یک اتزان به مقدار اش خالی

$$V = 12 \times 12 \times \pi \times h$$

بزرگ

$$V = 10 \times 10 \times \pi \times 2$$

اتزان  
در حال شده  
از اتزان  
بزرگ

(12-2) شعاع  
(10-2) شعاع

$$V = 72 \cdot \pi$$

اتزان  
بزرگ

$$V = 20 \cdot \pi$$

اتزان  
خالی  
شده

$$\Rightarrow V = 72 \cdot \pi - 20 \cdot \pi = 52 \cdot \pi$$

حاصل

$$V = 52 \cdot \pi$$

حاصل



ک کل برابر شد - عرض سطح (۱۲)

$$a \times a = 4 \Rightarrow a = 2$$

شده است  $\leftarrow$  حجم

$$a \times a \times a$$

$$\frac{2 \times 2 \times 2}{1} = \text{برابر شد}$$

$$S = \underbrace{P}_{\text{عرض}} \times h_{\text{طول}}$$

$$\text{عرض } P = 2 (\text{طول} + \text{عرض}) =$$

$$2 (\underbrace{4 + 4}_{\text{عرض}})$$

$$S = 10 \times \underbrace{\text{عرض}}_5 \times \underbrace{h}_{3} = 15.$$

$$\text{عرض} = 5$$

$$\text{طول} = 4 \times 5 = 20.$$

$$V = 20 \times 5 \times 3 = 300$$



$$\alpha \times \alpha \times a = \frac{\alpha}{r} \times \frac{\alpha}{r} \times r \times h \quad (14)$$

$$a = \frac{r}{\alpha} h \Rightarrow h = \frac{\alpha}{r} a$$

حل مسألت. (14) و (15)