45+40-+2 = 13 U/min.

taken to fill half = +440 x1

LCH = 24

(2)(+) A = 32 min => 45

(+)B = 36 min > 4

(-)C = 20 min

LCM = 1440

A+B = 6 hrs.

6

6+4-3 = 74/Ay

Ho of hys = 24

 $=3\frac{3}{1}$  hrs

A+B+c = 6 x A

A+B+c) work for a hrs = axt = 14 units

Remaining 
$$42 - |4| = 28$$
 units

Time taken by 'c' =  $\frac{28}{1} = 28$  hrs.

B =  $445(+)$  =  $\frac{36x+18}{9}$  =  $\frac{36x+18}{9}$ 

$$B = 45 (+) = 36x4185$$

$$= 45 (+) = 36x4185$$

$$= 400m$$

$$= 400m$$

$$= 800m$$

$$= 800m$$

$$= 800m$$

(a) 
$$A = 12 \Rightarrow 5$$

LCH (12,15) = 60

due to Leak = 15  $\Rightarrow 4$ 
 $5 - 4 = x$ 

Tank

Tank

Tank can be emptied in 60 hrs

(-) 
$$C = 18 \text{ hrs} \Rightarrow 5$$
  
 $(9+6-5) = 10$   
 $time = \frac{90}{10} = 9 \text{ hrs}$   
(8) Leak = 6hrs x8) cretion = 10 lit/hr. (4e)

Emptied = 16hrs x3) LCM = (48) Filling tap take 5 hrs

Capacity = 5x 48x10 = 2400.

1 1/16/12 - 3 x 10/2 / 1 .

(7)(A) A = 10 hrs =9

(+)B = 15 hrs = 6

A=20 his = 15

B= 25hrs = 12

C= 30hrs = 10 ABC 15+12+10)

LCH= 300

LCH=90

No of hours =  $\frac{300}{34}$  x3

= 900 hrs.

(1) (7A = 8hrs (3) fillings Glit (min.

empties: 12 hrs (2)

Capacity = 1x 24 x60x 6 = 8640 C.

 $-R = \frac{18}{18} = 5 \qquad (9+6) + 51$ 

Remaing =  $55 \Rightarrow 55/5 = 11 \text{ min.}$ 

Tême = 90 = 9hr.

A > 20min = \$5

5(5+4) = 45

 $B \Rightarrow a5 min = H$ 

12

+ P=10

+ 9=15

3-1=2010 1911-1911-1 1911-1

a d=1 graphe plant

= 6

= 9 LCM=90

= 15-5=10

LCH = 100

Leak = 10 hrs = 
$$4$$

Teme =  $40 \text{ his} = 40 \text{ min} \text{ hrs.}$ 

(15)  $\chi = 24 \text{ min} \Rightarrow 4$ 

LCH =  $96$ 

LCMOS(8,10) = 40

(+) A = 8hrs = 5

Leak =

y = 32 min > 3

(-) P = 8hrs >3.

x' should worked continously = 18x4 = 72

Remaining = 96-72 > 24

-111 Laxon Hime = 24 - 8min

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. Jan Jan Jan Jan

H.P=15 32 LCM=30 (+)Q=10m => 3 (-) R= 5min > 6. HX5 = 20 when R' also Joined. tank is empted by 11 U/men. There are 20 units. so, time = 20 min. 18 (H): A = 57 = 6 months of proper 4 CM = 30; (+)B = 6 = 5 (-) C = 2 = 15 A&B > 6+6+5= 17 units A4B4C > 6+6+5-157-4 (Empties) Time = 17 = 4/4 = 4/ms: 15 min. LCH = 96. P=24 > 4 Q=32 3 3 1 1 1 1 second pipe is fixed for 16 min = 48 Remaining = 48 Time =  $\frac{48}{4}$  = 12 min