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# RIMC JUNE 2022 WRITTEN QUALIFIED



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## RIMC JUNE 2022 WRITTEN QUALIFIED



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Least common multiple

Least common multiple

$$L cm(4,3,6) = 6$$

$$2X = 2$$

$$2X = 4$$

$$2X = 4$$

$$2X = 6$$

$$2X = 8$$

$$2X = 10$$

$$3X = 8$$

$$4(F(2,3))$$

HCF(2,3,6)=

$$N_1 = 3$$

$$L(m(3/12) = 12$$
  
 $HCF(3/12) = 3$ 

# LCM of fraction 
$$\left(\frac{t}{x}, \frac{q}{y}\right) \stackrel{?}{=} \frac{LCM(t)q_1y}{HCF(x,y,t)}$$

#  $H(F)$  of fraction  $\left(\frac{t}{x}\right) \stackrel{q}{=} \frac{1}{2} = \frac{LCM(t)q_1y}{LCM(x,y,t)}$ 
 $eg\left(\frac{2}{5}\right) \stackrel{?}{=} \frac{1}{4} = 12$ 
 $eg\left(\frac{2}{5}\right) \stackrel{?}{=} \frac{1}{4} = 12$ 

The LCM of two numbers is 28 times of their HCF. The sum of their LCM & HCF is 1740. If one of the

no: is 240. Find the other no:



$$N_1 \times N_2 = Lcm \times Hcf$$

put value of  $D$  in  $Q$ 
 $28Hcf + Hcf = 1740$ 
 $29Hcf = 1740$ 
 $400 = 400$ 
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 $240 \times N_{2} = 1680 \times 60$   $N_{3} = 1680 \times 60$   $N_{3} = 1680 \times 60$ 

Note: 1. The greatest no: that will divide x, y & z leaving remainders a, b & c respectively is given by the HCF of (x-a), (y-b), (z-c).2. The greatest no: that will divide x, y & z leaving the same remainder in each case is given by the HCF of (xy), (y-z), (z-x)MCF (x-y), (y-t) (2-x)

3. The least no: which when divided by x, y & z leaves same remainder R in each case is given by the LCM of (x,y,z) + R

Eg: Find the least no: which when divided by 12, 16, 18, 30 leaves remainder 4 in each case but it is completely divisible by 7

Sel) As me know
$$L(M(12,16,18,30)) = 720$$

$$2h \text{ order to get remainded}$$

$$= 720! \times N + 9$$

$$\text{for the value } N=9$$

720×n+4

$$\begin{array}{ll}
\text{D} & \exists x \circ x 1 + 4 = X \\
& \exists x \circ x x + 4 = X \\
& \exists x \circ x x + 4 = X \\
& \exists x \circ x x + 4 = X
\end{array}$$

for n=4 720x4+4=2884 Eg: Find the least no: which when divided by 3, 5, 6, 8, 10 & 12 leaves remainder 2 in each case but it is completely divisible by 13

$$\sum_{\text{Cmof}(3,5,6,8,10412)} = 120 + 2$$

$$= 120 \times n + 2$$

$$= 13$$

$$= 13$$

$$\frac{3n+2}{13}$$
 =  $\frac{2x}{15}=2$ 

$$|20n + 2|$$
 $|20x8 + 2| = 96^2$ 

4. The least no: which when divided by x, y & z leaves the remainder a, b & c respectively is given by the LCM of (x,y,z) - pwhere p = (x-a) = (y-b) = (z-c)The least ho which when divided by LCM(xyt) - p

What is the least no: which when divided by 15,18 \$21 leaves remained 2,548 respectively

= 6/7 m

$$p = (15-1) = (18-5) = (21-8) = 13$$

$$L(m(15,18,21) - p)$$

$$= 630-13$$

18 & 21 leaves remainder 2, 5, 8 respectively?

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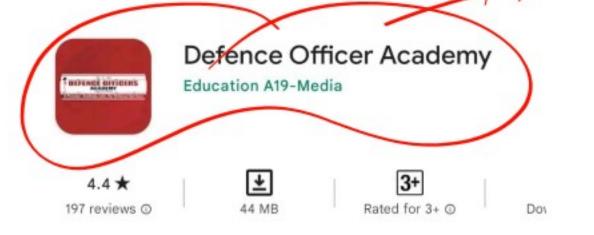
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5 406:30

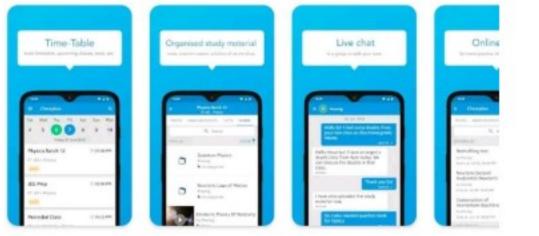


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