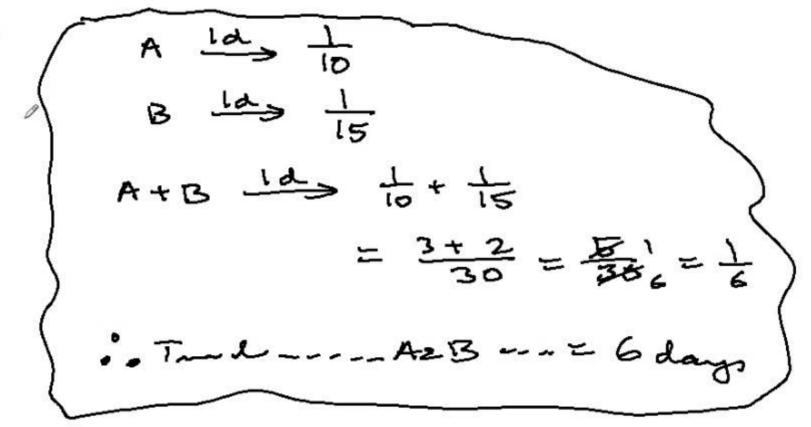
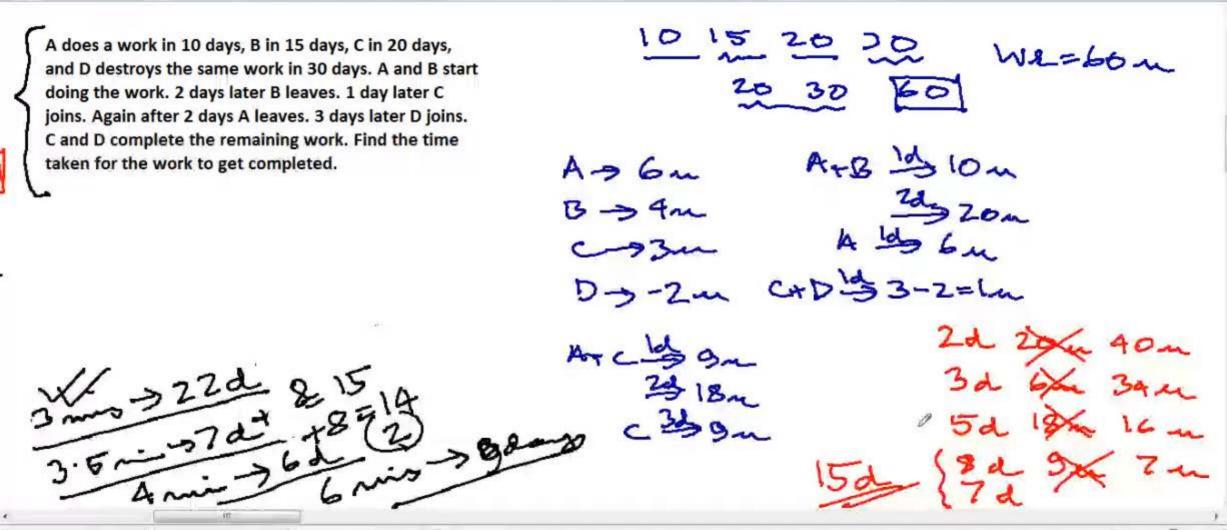
A does a piece of work in 10 days. B does the same work in 15 days. Find the time taken by A and B together to do the whole work?





A does a work in 10 days, B in 15 days, C in 20 days, We=bon and D destroys the same work in 30 days. A and B start doing the work. 2 days later B leaves. 1 day later C joins. Again after 2 days A leaves. 3 days later D joins. C and D complete the remaining work. Find the time A+B 1310m taken for the work to get completed. + 2375 1291px

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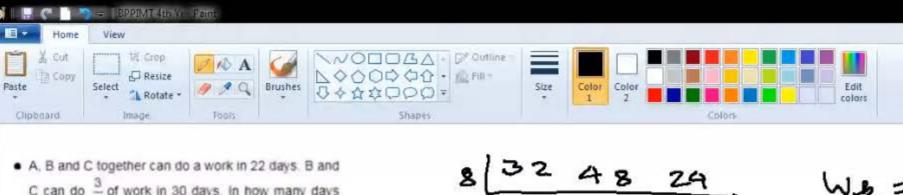
- A, B and C together can do a work in 22 days. B and C can do <sup>3</sup>/<sub>4</sub> of work in 30 days. In how many days can A alone do the work?
- (A)  $47\frac{8}{9}$

(B)  $48\frac{7}{9}$ 

(C) 48<sup>8</sup>/<sub>9</sub>

- (D) 47
- P and Q together can do a work in 32 days, P and R together in 48 days, R and Q together in 24 days.
   In how many days can P alone do the same work?
   (A) 64
   (B) 192
   (C) 128
   (D) 84
- A can do a work in 21 days and B in 28 days.
   Together they started the work and B left after 4 days. In how many days A alone can do the remaining work?
  - (A) 12 (B) 10 (C) 16 (D) 14
- P is twice as fast as Q and R together. Working together, all three can do a work in 21 days. In how many days can Q and R together do the work?
   (A) 48
   (B) 63
   (C) 54
   (D) 72

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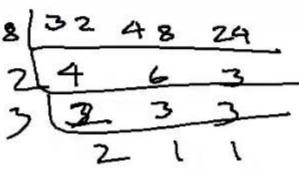


- C can do  $\frac{3}{4}$  of work in 30 days. In how many days can A alone do the work?
- (A) 47<sup>8</sup>

- P and Q together can do a work in 32 days, P and R together in 48 days, R and Q together in 24 days. In how many days can P alone do the same work? (A) 64 (B) 192 (C) 128
- A c≥8 do a work in 21 days and B in 28 days. Together they started the work and B left after 4 days. In how many days A alone can do the remaining work?
  - (A) 12
- (B) 10

恒

- (C) 16
- (D) 14
- · P is twice as fast as Q and R together. Working together, all three can do a work in 21 days. In how many days can Q and R together do the work? (A) 48 (B) 63 (C) 54 (D) 72



We = 96 m

PTQ+P 14 4.5m -: P 14 4.5-4=05 = 192d

+ 65, 1927px

¹☐ 10800 × 4496px

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- A, B and C together can do a work in 22 days. B and C can do  $\frac{3}{4}$  of work in 30 days. In how many days can A alone do the work?

- P and Q together can do a work in 32 days, P and R together in 48 days, R and Q together in 24 days. In how many days can P alone do the same work? (A) 64 (B) 192 (C) 128 (D) 84
- A can do a work in 21 days and B in 28 days. Together they started the work and B left after 4 days. In how many days A alone can do the remaining work?
  - (A) 12 (B) 10
- (C) 16 (D) 14
- P is twice as fast as Q and R together. Working together, all three can do a work in 21 days. In how many days can Q and R together do the work? (A) 48 (B) 63 (C) 54 (D) 72

21×3x=63x u

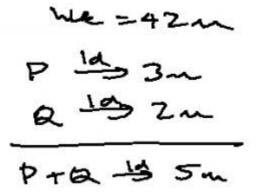
- P and Q can do a work in 14 and 21 days respectively. P started the work and after 9 days Q joined him If the total earnings for the work are ₹280, what is the share of P? (A) ₹210 (B) ₹240 (C) ₹225 (D) ₹180
- 8 men or 12 women or 20 boys can do a work in
- 36 days. In how many days can 6 men, 12 women and 10 boys together do the work? (A) 14 (B) 12 (C) 10 (D) 16
- · Eight men and six boys can do a work in eleven days, and nine men and twelve boys can do the work in nine days. In how many days can six men and thirty boys together do the work? (A) 11 (B) 8 (C) 10 (D) 9
- Vinay and Varma can do a work in 30 days and 60 days respectively. If they work on alternate days beginning with Vinay in how many days will the work be completed?
  - (A) 45 days (B) 35 days (C) 40 days (D) 50 days

- P and Q can do a work in 14 and 21 days respectively. P started the work and after 9 days Q joined him If the total earnings for the work are ₹280, what is the share of P?
  - (A) ₹210 (B) ₹240 (C) ₹225 (D) ₹180
- 8 men or 12 women or 20 boys can do a work in 36 days. In how many days can 6 men, 12 women and 10 boys together do the work?
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  - (A) 45 days

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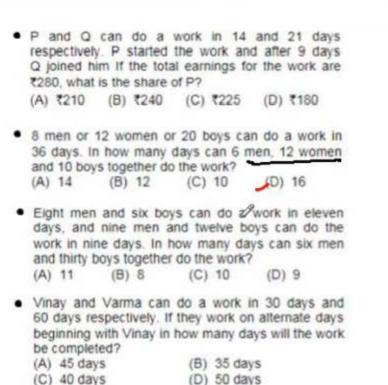


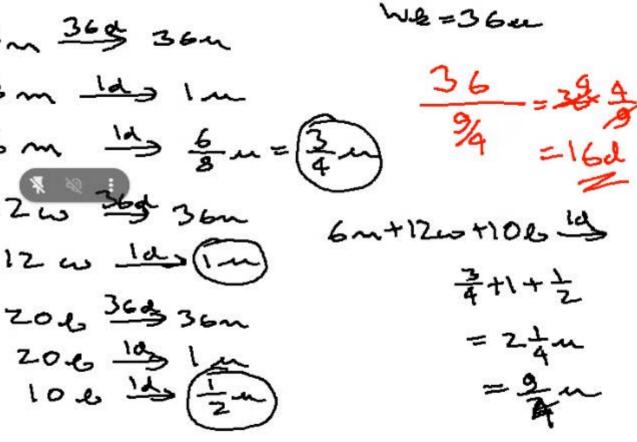
P 90 27m

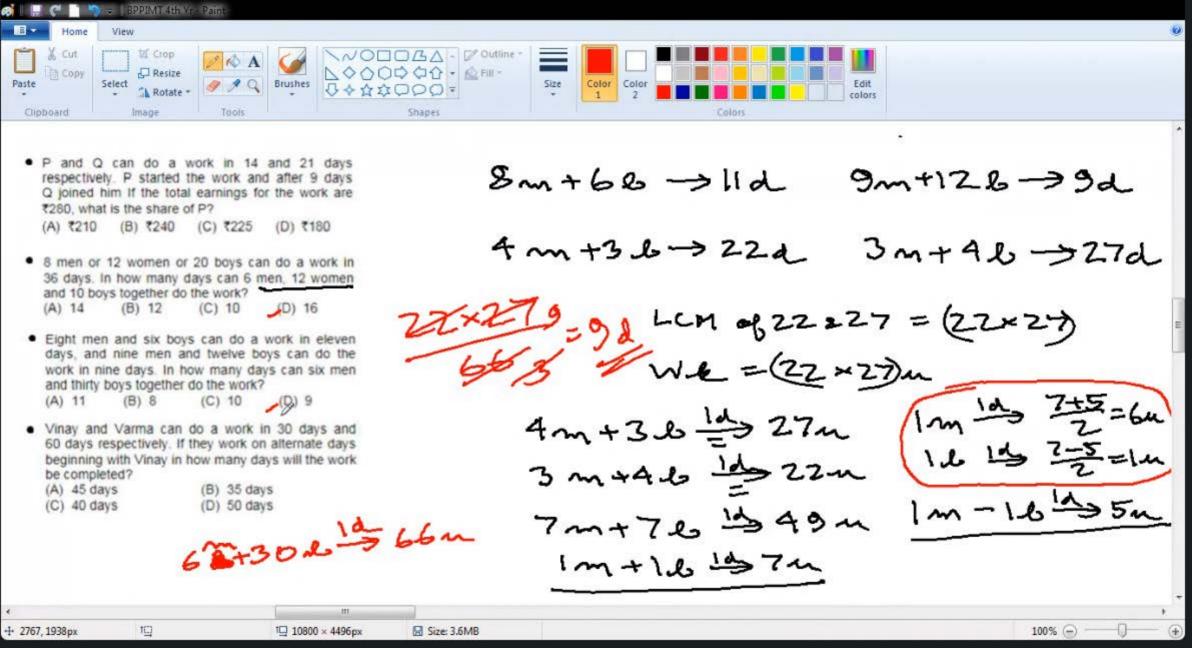
We loge = 42-27 P+Q 15mg 15=32

P: 6=36m: 6m = 6:1

P = 5 × 290 = 8240







 P and Q can do a work in 14 and 21 days respectively. P started the work and after 9 days Q joined him If the total earnings for the work are ₹280, what is the share of P?

(A) ₹210 (B) ₹240 (C) ₹225

 8 men or 12 women or 20 boys can do a work in 36 days. In how many days can 6 men, 12 women and 10 boys together do the work? (A) 14 (B) 12 (C) 10 (D) 16

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 Vinay and Varma can do a work in 30 days and 60 days respectively. If they work on alternate days beginning with Vinay in how many days will the work. be completed?

(A) 45 days

(B) 35 days

(C) 40 days

(D) 50 days

We= 60m

together, all three can do a work in 21 days. In how many days can Q and R together do the work?

(A) 48 (B) 63 (C) 54 (D) 72

7.38 4

20 minutes respectively. If they are opened simultaneously, in what time will the tank become full?

(A) 15 minutes

(B) 12 minutes

. Two pipes can fill a tank in 30 minutes and

- (C) 18 minutes
   (D) 9 minutes
   Pipe A can fill a tank in 6 hours. Due to a leak at the
- bottom it takes 9 hours to fill the tank. In what time the leak alone can empty the full tank?

  (A) 16 hours

  (B) 15 hours

  (C) 18 hours

  (D) 17 hours

- A can do a piece of work in 10 days, while B can do it in 20 days. How many days will A and B take to do
  the work, if they worked in alternate fashion.
- A can do a piece of work in 20 days, while B can do it in 30 days. A and B along with C finish the work in 6 days. Find the share of wages of each of them from a total of Rs 1,000/-.
- A and B together complete a work in 12 days. They work together for 9 days after which B leaves. A
  completes the remaining work in 5 days. In how many days will B alone complete the whole work.
- A+B together complete a work in 24 days, B+C in 40 days and C+A in 30 days. Find the number of days in which each of them would complete the work.
- 4 boys or 6 girls can do a piece of work in 18 days. In how many days will 4 boys and 3 girls working together complete the work.
- 6. 6 women and 2 men together take 10 days to do a work. 4 women and 8 men take 5 days to do the same work. Find the number of days in which 8 women and 6 men do the job.
- 7. A working alone takes 80 days more than A+B working together to complete a work. B working alone takes 20 days more than A+B working together to complete a work. Find the time taken by A alone to complete the work.
- 8. A takes twice as long as B and C together to do a certain work. B takes three times as long as A and C together. They together can finish the work in 10 days. How many days would they respectively take working separately.

of work in 10 days, while B can do it in 20 days. How many days will A and B take to do worked in alternate fashion. of work in 20 days, while B can do it in 30 days. A and B along with C finish the work in hare of wages of each of them from a total of Rs 1,000/-. r complete a work in 12 days. They work together for 9 days after which B leaves. A maining work in 5 days. In how many days will B alone complete the whole work, mplete a work in 24 days, B+C in 40 days and C+A in 30 days. Find the number of days them would complete the work. can do a piece of work in 18 days. In how many days will 4 boys and 3 girls working te the work. men together take 10 days to do a work. 4 women and 8 men take 5 days to do the the number of days in which 8 women and 6 men do the job. takes 80 days more than A+B working together to complete a work, B working alone ore than A+B working together to complete a work. Find the time taken by A alone to long as B and C together to do a certain work. B takes three times as long as A and C ogether can finish the work in 10 days. How many days would they respectively take

We=200

- A can do a piece of work in 10 days, while B can do it in 20 days. How many days will A and B take to do
  the work, if they worked in alternate fashion.
- A can do a piece of work in 20 days, while B can do it in 30 days. A and B along with C finish the work in 6 days. Find the share of wages of each of them from a total of Rs 1,000/-.
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- 7. A working alone takes 80 days more than A+B working together to complete a work. B working alone takes 20 days more than A+B working together to complete a work. Find the time taken by A alone to complete the work.
- A takes twice as long as B and C together to do a certain work, B takes three times as long as A and C
  together. They together can finish the work in 10 days. How many days would they respectively take
  working separately.

WB=60 m A+B+C 1000 WA: WB: WC = 3:2:5 A can do a piece of work in 10 days, while B can do it in 20 days. How many days will A and B take to do
the work, if they worked in alternate fashion.

 A can do a piece of work in 20 days, while B can do it in 30 days. A and B along with C finish the work in 6 days. Find the share of wages of each of them from a total of Rs 1,000/-.

A and B together complete a work in 12 days. They work together for 9 days after which B leaves. A
completes the remaining work in 5 days. In how many days will B alone complete the whole work.

 A+B together complete a work in 24 days, B+C in 40 days and C+A in 30 days. Find the number of days in which each of them would complete the work.

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A working alone takes 80 days more than A+B working together to complete a work. B working alone takes 20 days more than A+B working together to complete a work. Find the time taken by A alone to

complete the work.

8. A takes twice as long as B and C together to do a certain work. B takes three times as long as A and C

working separately.

together. They together can finish the work in 10 days. How many days would they respectively take

LCH & 1225 = 60 m

A13 10 5m

4+B 34 45m

Wa left=15m

A 500 15m

A 133m

B 45 5-3= Zu

1. A can do a piece of work in 10 days, while B can do it in 20 days. How many days will A and B take to do the work, if they worked in alternate fashion. 2. A can do a piece of work in 20 days, while B can do it in 30 days. A and B along with C finish the work in 6 days. Find the share of wages of each of them from a total of Rs 1,000/-. 3. A and B together complete a work in 12 days. They work together for 9 days after which B leaves. A completes the remaining work in 5 days. In how many days will B alone complete the whole work. 4. A+B together complete a work in 24 days, B+C in 40 days and C+A in 30 days. Find the number of days in which each of them would complete the work. 5. 4 boys or 6 girls can do a piece of work in 18 days. In how many days will 4 boys and 3 girls working together complete the work. 6. 6 women and 2 men together take 10 days to do a work. 4 women and 8 men take 5 days to do the same work. Find the number of days in which 8 women and 6 men do the job.

7. A working alone takes 80 days more than A+B working together to complete a work. B working alone takes 20 days more than A+B working together to complete a work. Find the time taken by A alone to complete the work. 8. A takes twice as long as B and C together to do a certain work. B takes three times as long as A and C together. They together can finish the work in 10 days. How many days would they respectively take working separately.

LCM of 29,40 = 30 = 120

het wol = 120m

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the work, if they worked in alternate fashion.

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in which each of them would complete the work.

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Let W& = 18 m

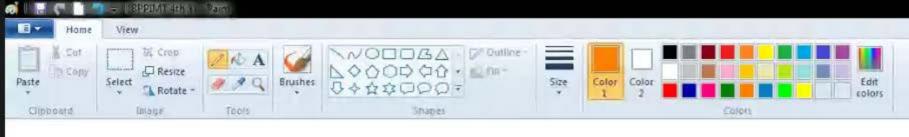
40 13 m

6 g las la

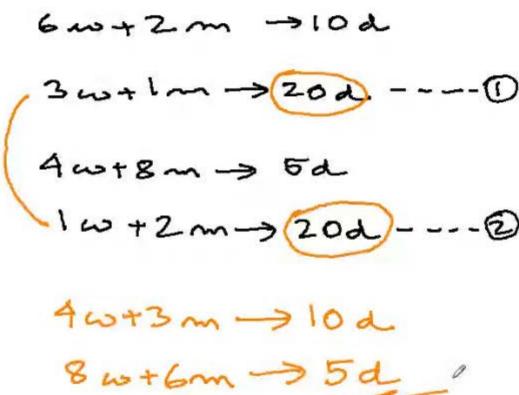
:.3g 当 之u

48+3g 1001+1=3の

18 = 18x = = 12d



- 1. A can do a piece of work in 10 days, while B can do it in 20 days. How many days will A and B take to do the work, if they worked in alternate fashion.
- 2. A can do a piece of work in 20 days, while B can do it in 30 days, A and B along with C finish the work in 6 days. Find the share of wages of each of them from a total of Rs 1,000/-.
- 3. A and B together complete a work in 12 days. They work together for 9 days after which B leaves. A completes the remaining work in 5 days. In how many days will B alone complete the whole work.
- 4. A+B together complete a work in 24 days, B+C in 40 days and C+A in 30 days. Find the number of days in which each of them would complete the work.
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- 8. A takes twice as long as B and C together to do a certain work. B takes three times as long as A and C together. They together can finish the work in 10 days. How many days would they respectively take working separately.



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TO:

1 10800 × 4496px

☐ Size: 3.6MB

100% (-)

Lut (A+B) -> Td 40d 7. A working alone takes 80 days more than A+B working together to complete a work. B working alone takes 20 days more than A+B working together to complete a work. Find the time taken by A alone to complete the work. A → (T+80) d 120d / B → (T+20) d 60d 8. A takes twice as long as B and C together to do a certain work. B takes three times as long as A and C together. They together can finish the work in 10 days. How many days would they respectively take working separately. LCM ob T, (5+20), (7+20) = T(5+80) (5+20) T(+20)+T(+80) Letwe = T (#80) (+76)~ = (+86) (+20) A+B (1+80) (1+20) W T2+30++72+80 = 72+804+204 B 1d T(T+20) m } A+B 1d T(T+20) m } T(T+20) + T(T+80) T2= 1600 = 40

- 7. A working alone takes 80 days more than A+B working together to complete a work. B working alone takes 20 days more than A+B working together to complete a work. Find the time taken by A alone to complete the work.
- 8. A takes twice as long as B and C together to do a certain work. B takes three times as long as A and C together. They together can finish the work in 10 days. How many days would they respectively take working separately.

Letwe = T (#80) (+76)~

A+ 2A = (B+C)+A

A -> 2 (B+C) B -> 3 (C+A)

A+B+C -> 10d A+B+C 12m

C = 12-(4+3)=5m

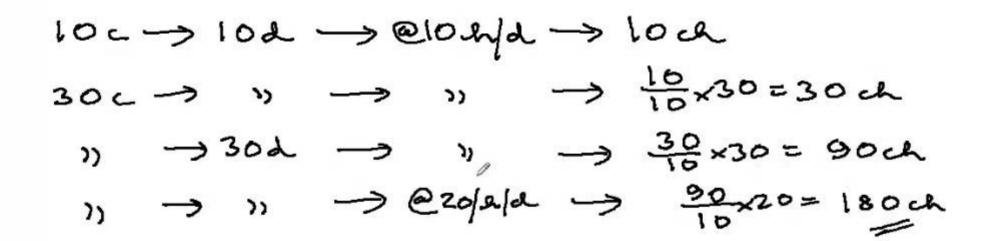
-> 120 = 24d 4 =3m => 120 = 402

- A does a piece of work in 10 days, B in 15 days, C in 20 days and D destroys the work in 30 days, A+B start the work. After 2 days B leaves, 1 day later C joins, A leaves after 2 days, 1 day later D joins and both C and D complete the work. What was the total time taken for the work.
- 10. 10 carpenters can make 10 chairs in 10 days working for 10 hours a day. How many chairs can 30 carpenters can make in 30 days working for 20 hours.
- 11. Meera is 1.5 times faster than Maya. If Maya can do a work in 15 days, how long will it take for both of them to do it together.

12. X. Y and Z can do a job in 24, 30 and 40 days respectively. X works alone for the 1st day, then Y works alone for next 2 days, then Z works alone for next 3 days and so on. On which day will the job end?



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- 12. X, Y and Z can do a job in 24, 30 and 40 days respectively. X works alone for the 1st day, then Y works alone for next 2 days, then Z works alone for next 3 days and so on. On which day will the job end?



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tica.

1☐ 10800 × 4496px

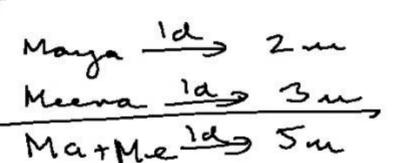
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100% (-)

10. 10 carpenters can make 10 chairs in 10 days working for 10 hours a day. How many chairs can 30 carpenters can make in 30 days working for 20 hours.
 11. Meera is 1.5 times faster than Maya. If Maya can do a work in 15 days, how long will it take for both of

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We= 15 x2=30m

12. X, Y and Z can do a job in 24, 30 and 40 days respectively. X works alone for the 1th day, then Y works alone for next 2 days, then Z works alone for next 3 days and so on. On which day will the job end?

Cd×5=30d

=110m

:. We = 120m

LCM 06 24, 30 =40 =120