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# **Exercise: Time and Work - General Questions**

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- 6. If 6 men and 8 boys can do a piece of work in 10 days while 26 men and 48 boys can do the same in 2 days, the time taken by 15 men and 20 boys in doing the same type of work will be:
  - (A) 4 days
  - B 5 days
  - © 6 days
  - ① 7 days

## **Answer:** Option (A)

## **Explanation:**

Let 1 man's 1 day's work = x and 1 boy's 1 day's work = y.

Then, 
$$6x + 8y = \frac{1}{10}$$
 and  $26x + 48y = \frac{1}{2}$ .

Solving these two equations, we get:  $x = \frac{1}{100}$  and  $y = \frac{1}{200}$ .

(15 men + 20 boy)'s 1 day's work = 
$$\left(\frac{15}{100} + \frac{20}{200}\right) = \frac{1}{4}$$
.

 $\cdot$  15 men and 20 boys can do the work in 4 days.









- 7. A can do a piece of work in 4 hours; B and C together can do it in 3 hours, while A and C together can do it in 2 hours. How long will B alone take to do it?
  - (A) 8 hours
  - (B) 10 hours
  - (c) 12 hours
  - 1 24 hours

Answer: Option ©

#### **Explanation:**

A's 1 hour's work =  $\frac{1}{4}$ ;

(B + C)'s 1 hour's work =  $\frac{1}{3}$ ;

(A + C)'s 1 hour's work =  $\frac{1}{2}$ .

(A + B + C)'s 1 hour's work =  $\left(\frac{1}{4} + \frac{1}{3}\right) = \frac{7}{12}$ .

B's 1 hour's work =  $\left(\frac{7}{12} - \frac{1}{2}\right) = \frac{1}{12}$ .

∴ B alone will take 12 hours to do the work.









- 8. A can do a certain work in the same time in which B and C together can do it. If A and B together could do it in 10 days and C alone in 50 days, then B alone could do it in:
  - A 15 days
  - B 20 days
  - © 25 days
  - ① 30 days

Answer: Option (C)

## **Explanation:**

(A + B)'s 1 day's work =  $\frac{1}{10}$ 

C's 1 day's work = 
$$\frac{1}{50}$$

(A + B + C)'s 1 day's work = 
$$\left(\frac{1}{10} + \frac{1}{50}\right) = \frac{6}{50} = \frac{3}{25}$$
.... (i)

A's 1 day's work = (B + C)'s 1 day's work .... (ii)

From (i) and (ii), we get:  $2 \times (A's 1 \text{ day's work}) = \frac{3}{25}$ 

$$\Rightarrow$$
 A's 1 day's work =  $\frac{3}{50}$ .

∴ B's 1 day's work 
$$\left(\frac{1}{10} - \frac{3}{50}\right) = \frac{2}{50} = \frac{1}{25}$$
.

So, B alone could do the work in 25 days.









- 9. A does 80% of a work in 20 days. He then calls in B and they together finish the remaining work in 3 days. How long B alone would take to do the whole work?
  - (A) 23 days
  - **B** 37 days
  - ©  $37\frac{1}{2}$
  - ① 40 days

Answer: Option ©

## **Explanation:**

Whole work is done by A in  $\left(20 \times \frac{5}{4}\right)$  = 25 days.

Now,  $\left(1 - \frac{4}{5}\right)$  i.e.,  $\frac{1}{5}$  work is done by A and B in 3 days.

Whole work will be done by A and B in  $(3 \times 5) = 15$  days.

A's 1 day's work =  $\frac{1}{25}$ , (A + B)'s 1 day's work =  $\frac{1}{15}$ 

∴ B's 1 day's work =  $\left(\frac{1}{15} - \frac{1}{25}\right) = \frac{4}{150} = \frac{2}{75}$ .

So, B alone would do the work in  $\frac{75}{2}$  =  $37\frac{1}{2}$  days.









10. A machine P can print one lakh books in 8 hours, machine Q can print the same number of books in 10 hours while machine R can print them in 12 hours. All the machines are started at 9 A.M. while machine P is

closed at 11 A.M. and the remaining two machines complete work. Approximately at what time will the work (to print one lakh books) be finished?

- **(A)** 11:30 A.M.
- **(B)** 12 noon
- © 12:30 P.M.
- **1:00 P.M.**

Answer: Option (1)

#### **Explanation:**

$$(P + Q + R)$$
's 1 hour's work =  $\left(\frac{1}{8} + \frac{1}{10} + \frac{1}{12}\right) = \frac{37}{120}$ .

Work done by P, Q and R in 2 hours =  $\left(\frac{37}{120} \times 2\right) = \frac{37}{60}$ .

Remaining work = 
$$\left(1 - \frac{37}{60}\right) = \frac{23}{60}$$
.

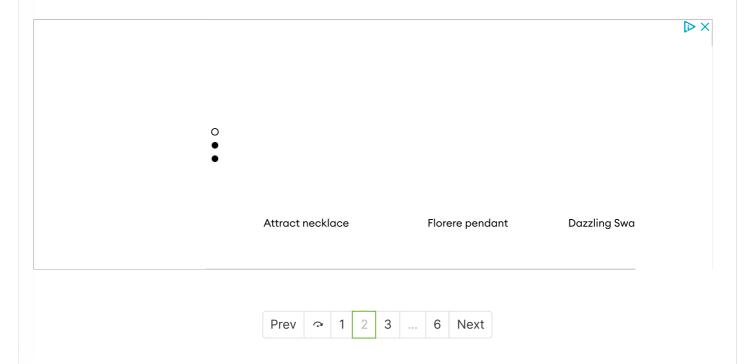
$$(Q + R)$$
's 1 hour's work =  $\left(\frac{1}{10} + \frac{1}{12}\right) = \frac{11}{60}$ .

Now,  $\frac{11}{60}$  work is done by Q and R in 1 hour.

So,  $\frac{23}{60}$  work will be done by Q and R in  $\left(\frac{60}{11} \times \frac{23}{60}\right) = \frac{23}{11}$  hours  $\approx 2$  hours.

So, the work will be finished approximately 2 hours after 11 A.M., i.e., around 1 P.M.







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