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1. A can do a work in 15 days and B in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is :

   Ⓐ $\dfrac{1}{4}$

   Ⓑ $\dfrac{1}{10}$

   Ⓒ $\dfrac{7}{15}$

   Ⓓ $\dfrac{8}{15}$

   Answer: Option Ⓓ

   Explanation:

   A's 1 day's work = $\dfrac{1}{15}$;

   B's 1 day's work = $\dfrac{1}{20}$;

   (A + B)'s 1 day's work = $\left(\dfrac{1}{15} + \dfrac{1}{20} \right) = \dfrac{7}{60}.$

   (A + B)'s 4 day's work = $\left(\dfrac{7}{60} \times 4 \right) = \dfrac{7}{15}.$

   Therefore, Remaining work = $\left(1 - \dfrac{7}{15} \right) = \dfrac{8}{15}.$

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2. A can lay railway track between two given stations in 16 days and B can do the same job in 12 days. With help of C, they did the job in 4 days only. Then, C alone can do the job in:

(A) $9\dfrac{1}{5}$ days

(B) $9\dfrac{2}{5}$ days

(C) $9\dfrac{3}{5}$ days

(D) 10

Answer: Option (C)

Explanation:

(A + B + C)'s 1 day's work = $\dfrac{1}{4}$,

A's 1 day's work = $\dfrac{1}{16}$,

B's 1 day's work = $\dfrac{1}{12}$.

$\therefore$ C's 1 day's work = $\dfrac{1}{4}$ - $\left(\dfrac{1}{16} + \dfrac{1}{12}\right)$ = $\left(\dfrac{1}{4} - \dfrac{7}{48}\right)$ = $\dfrac{5}{48}$.

So, C alone can do the work in $\dfrac{48}{5}$ = $9\dfrac{3}{5}$ days.

3. A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day?

(A) 12 days

(B) 15 days

(C) 16 days

(D) 18 days

Answer: Option (B)

Explanation:

A's 2 day's work = $\left(\dfrac{1}{20} \times 2\right)$ = $\dfrac{1}{10}$.

(A + B + C)'s 1 day's work = $\left(\dfrac{1}{20} + \dfrac{1}{30} + \dfrac{1}{60}\right)$ = $\dfrac{6}{60}$ = $\dfrac{1}{10}$.

Work done in 3 days = $\left(\dfrac{1}{10} + \dfrac{1}{10}\right)$ = $\dfrac{1}{5}$.

Now, $\underline{1}$ work is done in 3 days.

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∴ Whole work will be done in (3 × 5) = 15 days.

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4. A is thrice as good as workman as B and therefore is able to finish a job in 60 days less than B. Working together, they can do it in:

(A) 20 days

(B) $22\frac{1}{2}$ days

(C) 25 days

(D) 30 days

Answer: Option (B)

Explanation:

Ratio of times taken by A and B = 1 : 3.

The time difference is (3 - 1) 2 days while B take 3 days and A takes 1 day.

If difference of time is 2 days, B takes 3 days.

If difference of time is 60 days, B takes $\left(\dfrac{3}{2} \times 60\right)$ = 90 days.

So, A takes 30 days to do the work.

A's 1 day's work = $\dfrac{1}{30}$

B's 1 day's work = $\dfrac{1}{90}$

(A + B)'s 1 day's work = $\left(\dfrac{1}{30} + \dfrac{1}{90}\right) = \dfrac{4}{90} = \dfrac{2}{45}$

∴ A and B together can do the work in $\dfrac{45}{2} = 22\frac{1}{2}$ days.

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5. A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?

(A) Rs. 375

(B) Rs. 400

(C) Rs. 600

(D) Rs. 800

Answer: Option (B)

Explanation:

C's 1 day's work = $\dfrac{1}{3} - \left(\dfrac{1}{6} + \dfrac{1}{8} \right) = \dfrac{1}{3} - \dfrac{7}{24} = \dfrac{1}{24}$.

A's wages : B's wages : C's wages = $\dfrac{1}{6} : \dfrac{1}{8} : \dfrac{1}{24} = 4 : 3 : 1$.
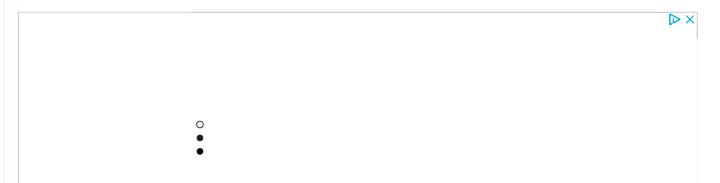
∴ C's share (for 3 days) = Rs. $\left(3 \times \dfrac{1}{24} \times 3200 \right)$ = Rs. 400.
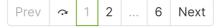
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