

05

WK 10 • 064-301

MONDAY
MARCHPOP-4

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S

1 → Sum of ages of 50 students $\Rightarrow 50 \times 20 = 1000$

Sum of ages of 10 " " $\Rightarrow 10 \times 16 = 160$

let avg age of remaining 40 students be x

$$\Rightarrow 160 + 40 \times x = 900$$

$$\Rightarrow 40x = 900 - 160$$

$$\Rightarrow 740$$

$$\Rightarrow x = 740/40 \Rightarrow 18.5 //$$

2 → Let total profit be 100 Rs

then 5% means Rs. 5 paying to charity.

$$\Rightarrow 95 \times 3/5 \Rightarrow \text{RS } 57 //$$

if A = 57 Rs and 100 Rs profit

$$\text{then } \Rightarrow \text{total profit} = \{100/57 \times 855\}$$

$$\Rightarrow 85500/57$$

$$\Rightarrow 1500 //$$

NOTES

APRIL '18

1 2 3 4 5 6 7 8
 9 10 11 12 13 14 15 16 17 18 19 20 21 22
 23 24 25 26 27 28 29 30
 M T W T F S S M T W T F S S

TUESDAY

MARCH

06

WK 10 • 065-300

3) Let their investment by x for 14 months, y for 8 months and z for 7 months.

$$\Rightarrow \text{then, } 14x : 8y : 7z = 5 : 7 : 8$$

$$\text{Now } 14x/8y = 5/7$$

$$\Rightarrow 98x = 40y$$

$$\Rightarrow y = \frac{49}{20}x$$

$$\text{and } 14x/7z = 5/8 \Rightarrow 112x = 35z$$

$$\Rightarrow \frac{16}{35}x = \frac{16}{5}z \Rightarrow \frac{16}{5}x$$

$$\text{So, Now, } x : y : z \Rightarrow x : \frac{49}{20}x : \frac{16}{5}x$$

$$\Rightarrow \underline{\underline{20 : 49 : 64}}$$

$$5) \text{ S.P} = 18,700$$

$$\text{and } 15\% \text{ loss} = 100 - 15 \\ \Rightarrow 85\%$$

Now 15% of 22000 is

3300

so \Rightarrow total SP will be

$$\Rightarrow \underline{\underline{25300}}$$

$$\text{Now, } 18,700 \times 100/85$$

$$\Rightarrow 1870000/85$$

$$\Rightarrow \underline{\underline{RS 22000}}$$

NOTES

07

WK 10 • 066-299

WEDNESDAY

MARCH

12 13 14 15 16 17 18 19 20 21 22
26 27 28 29 30 31

M T W T F S S M T W T

6 → Let A's 1 day work be x
and B's " " " " y .

Then $x + y = 1/30$

So, $16x + 44y = 1$.

- on solving we get $x = 1/60$, $y = 1/60$

So B finish the whole work alone in 60 days.

7 → A → iii → Both exams had almost same difficulty level

4 B → (iv) = 430//

5 C → D-section

6 D → A-section

7 E → D-Section

NOTES

A man with a bad temper

APRIL '18

MARCH

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16 17 18 19 20 21 22
23 24 25 26 27 28 29 30
M T W T F S S M T W T F S S

Reasoning

10 1 → C → ISS

11 2 → D → VE7

12 3 → B → NEO

1 4 → D → Pixnonth

2 5 → C → P - M + N × Q.

3

4

5