Day-4

Aptitude

1. $\frac{70 + 75 + 80}{3}$

$= 75$

2. 10, 12, 14, 16 and 18.

$\frac{10 + 12 + 14 + 16 + 18}{5}$

14

3. Total weight = Average weight × No of boxes

10×5

$= 50$ kg

4. 2 hours × 5 days

$= 10$ hours

5. If machine completes the whole task in 4 hours

in one hour $1/4$ work will be completed.

6. In two hours $\frac{2}{3}$ of the wall will be painted

7. 6 workers × 8 days
= 48 workers-days

1 worker → $\frac{1}{48}$

0.020 work will be done by 1 worker in a day

8. $15 \times 6 = 90$

9. $50 \times 4 = 200$

10. 4×12
$= 48$

$\frac{2}{48} = 0.041$

11. 5 days

12. A & B → $\frac{1}{12} = 0.08$

A done → $\frac{1}{20} = 0.05$

$0.08 - 0.05$
$= 0.03$

13. man paints - 1/15

son paints - 1/20

Add - $\frac{1}{15} + \frac{1}{20}$

$\frac{1}{15} = \frac{4}{60}$, $\frac{1}{20} = \frac{3}{60}$

$\frac{4}{60} + \frac{3}{60} = \frac{7}{60}$

5 | 15, 20
3 | 3, 4
1, 4

$5 \times 3 \times 4 = 60$

Time: $\frac{1}{7/60} = \frac{60}{7} = 8.57$

8 days

14.

Average is 20, No of value = 5

$20 \times 5 = 100$

New average = 18, No of value = 4

$18 \times 4 = 72$

$100 - 72$

$= 28$

15. $30 \times 10 = 300$ kg

$25 + 35$

$= 60$

$300 - 60$

$= 240$ kg

$10 - 2 = 8 \Rightarrow$ New Average $= \frac{240}{8} = 30$ kg

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16.

17. $35 \times 8 = 280$

New no $40 + 45 + 50 = 135$

$280 + 135 = 415$

$8 + 3 = 11$

$\frac{415}{11} = 37.73$

18. $25 \times 10 = 250$

$250 - 40 = 210$

$10 - 1 = 9$

$\frac{210}{9} = 23.33$

20 $30 \times 7 = 210$

$210 - 42 = 168$

$7 - 1 = 6$

$\frac{168}{6} = 28$

21. A - $\frac{1}{24}$ B - $\frac{1}{30}$ C - $\frac{1}{40}$

$\frac{5}{120}$ $\frac{4}{120}$ $\frac{3}{120}$

$\frac{5+4+3}{120} = \frac{12}{120} = \frac{1}{10}$

half of the work.

$5 \times \frac{1}{10} = \frac{5}{10} = \frac{1}{2}$

$1 - \frac{1}{2} = \frac{1}{2}$

23.

23. $50 \times 10 = 500$

$+70 - 10 = +10$

$500 + 10 = 510$

$\frac{510}{10} = 51$

24. $\frac{1}{8} - \frac{1}{12}$

$\frac{3}{24} - \frac{2}{24} = \frac{1}{24}$

24 floors

25. $A = \frac{1}{10}$ $B = \frac{1}{15}$ $C = \frac{1}{20}$

$\downarrow$ $\downarrow$ $\downarrow$

$6/60$ $4/60$ $3/60$

$\frac{6+4+3}{60} = \frac{13}{60}$

$4 \times \frac{13}{60} = \frac{52}{60}$

$\downarrow$

$13/15$

$1 - 13/15 = 2/15$