

Soliton Technologies Arithmetic Ability Questions

Q1. If x men working x hrs per day can do x units of work in x days, then y men working y hrs/day would be able to complete how many units of work in y days?

ANS: y^3/x^2

Q2. 1 Rs, 50 ps, 25 ps coins are in the ratio -----, then the number of 50 ps coins if they sum to -----Rs.

Q3. $x/y + y/x = 40/2$, find x and y .

Q4. A string of pearls such that $1/3$ is lost and of that $1/4$ th is missing, remaining is 20. Then what is the actual number of pearls?

ANS: 40

Q5. Boat moves upstream in 6 hrs and covers the same distance downstream in 5 hrs. Then speed of a raft floating?

Q6. If a sales man gets successive gain of 15% and 20% then his actual gain?

ANS: 38

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Q7. A clock was 7 mts behind the actual time on 3 p.m. on wednesday and 8 mts ahead of actual time on 4 p.m. Friday. When will it show the correct time?

Q8. A goods train starts and after 2 hrs a passenger train at 4km/hr starts and overtakes the goods train after 4 hrs, then the speed of goods train?

Q9. A man gets a gain of $x\%$. But if he had sold at twice the cost price, what will be his gain?

- a. $2x$
- b. $200-2x$
- c. $100+x$

Q10. 15 hrs of boys work = 6 hrs of womens work. $\frac{3}{5}$ of the work is done by ----boys and ----women. How much time would be taken by x boys and y women to complete $\frac{1}{3}$ of the work?

Q11. A figure was given a square with four corners shaded and asked to find the area of the shaded portion.... ie area of square-area of the regular octagon.....

Q12. There was one question on triangle.

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Q13. There were 2 questions on train.

Q14. There was one more question on coins i.e. about getting a change of 10 ps and 25 coins for -----Rs.(how many possible combinations?)

Q15. There were two questions on volume and surface area.

Q16. One question like: $S(P(M((D(a,b),2)))$: $P(M(S(D(a,b), \dots))$ what it stands for?

- a) ab
- b) $(a-b)^2$
- c) $(a+b)^2$
- d) none