

Philips Model Paper Questions

Q1. Distance between two poles is 50 meters. A train goes by 48 kmph in one minute. How many poles will be crossed by the train?

Q2. If $p = 2q$ then $q = r \cdot r$, if p -odd then q is even, whether we decide r is even or odd ?

- a) first condition is sufficient
- b) second condition is sufficient
- c) both are sufficient
- d) both are not sufficient

Q3. Cost of an item is x . Its value increases by $p\%$ and decreases by $p\%$. Now the new value is 1 rupee, what is the actual value?

ANS: $(1000)/(1000-p \cdot p)$.

Q4. Two pipes can fill a tank in 10 and 12 hours while third pipe will make the tank empty in 20 hours. If all three pipes operate simultaneously, in how many hours the tank will be filled?

ANS: 7 hours 30 minutes.

Q5. For 15 people - each has to pay Rs.20. For 20 people - each has to pay Rs.18. For 40 people – how much has to pay?

Q6. $6 \cdot 12 \cdot 15$ is the volume of some material. How many cubes can be inserted into that?

ANS: 40

Q7. What is the value of m given that

i) m is divided by 2

ii) m is divided by 5

ANS: none of these

Q8. A pole seen from a certain distance at an angle of 15 degrees and 100 meters ahead by 30 degrees. What is the height of pole?

Q9. A right circular cylinder and a cone are there. Base radius of cone is equal to radius of cylinder. What is the ratio of height to slant side?

Q10. Diameter of a beaker is 7cm. Mambler (some instrument) diameter is 1.4cm. How many mambler has to be put to increase the water level by 5.6cm?