# Flashcards

## l1

**Q1. What is the largest copper producing country in the world?**

A1. Chile.

**Q2. If a circle's radius is diminished by 10%, by how much is its area diminished?**

A2. 19%.

**Q3. A boat travels 20 km upstream in 6 hours and 18 km downstream in 4 hours. What are the boat's speed in still water and the speed of the current?**

A3. 7/12 kmph.

**Q4. At what time after 4:00 p.m. are the minute and hour hands of a clock exactly aligned?**

A4. 4:21:49.5.

**Q5. A TV set sold for Rs.17,940 with an 8% discount, yielding a 19.6% profit. What would the profit percentage be without the discount?**

A5. None of these.

**Q6. If (2x - y) = 4, then what is the value of (6x - 3y)?**

A6. 12.

**Q7. A clock gaining 10 minutes in 24 hours is set right at 8 a.m. What is the true time when the clock indicates 1 p.m. the following day?**

A7. 48 min. past 12.

**Q8. What is the missing number in this series: 8 2 14 6 11 ? 14 6 18 12?**

A8. 9.

**Q9. Dinesh travelled 1200 km by air (2/5 of his trip), 1/3 by car, and the rest by train. What distance did he travel by train?**

A9. 800 km.

**Q10. A train, after traveling for an hour at uniform speed, reduces to 3/5 its speed due to a fault and arrives 2 hours late. If the fault occurred 50 miles later, it would have arrived 40 minutes earlier. What is the distance?**

A10. 300 miles.

**Q11. The average of a two-digit number and its reverse is 9. What is the difference between the digits?**

A11. Cannot be determined.

**Q12. Pipe A fills a tank in 20 minutes, B in 30 minutes, and C empties it in 40 minutes. How long does it take to fill the tank if all three are working?**

A12. 17 1/7 mins.

**Q13. A person has 4 coins of different denominations. How many different sums can be formed using one or more coins?**

A13. 15.

**Q14. The simple interest on a sum for 3 years is 225, and the compound interest on the same sum at the same rate for 2 years is 153. What is the principal?**

A14. 1875.

**Q15. A cow is tethered with a 14-foot rope. It grazes 100 sq. ft. per day. Approximately how long will it take to graze the whole area?**

A15. 6 days.

**Q16. A passenger train leaves 2 hours after a freight train, traveling at 16 km/hr. It overtakes the freight train after 4 hours. What was the freight train's speed?**

A16. 8 km/hr.

**Q17. What two colors are seen at the extreme ends of the pH chart?**

A17. Red and Blue.

**Q18. What is the next number in the series: 8 15 24 35 48 63 \_?**

A18. 80.

**Q19. Mr. Horton, his wife, son, and mother are a doctor and a lawyer. Knowing that a) if the doctor is younger, they're not related, b) if the doctor is a woman, they are related, and c) if the lawyer is a man, the doctor is a man. Whose occupation do we know?**

A19. Mr. Horton: he is the doctor.

**Q20. In a figure with tangents PA and PB, and chord BC parallel to PA, AC = 6 cm, and AP = 9 cm, what is the length of chord BC?**

A20. 4 cm.