

Number Properties: Medium Practice Paper 4

Q1. What is the highest common factor (HCF) of 27 and 45?

- A. 3 B. 5 C. 9 D. 15 E. 27

Q2. What is the lowest common multiple (LCM) of 8 and 12?

- A. 4 B. 20 C. 24 D. 48 E. 96

Q3. How many factors does 100 have?

- A. 7 B. 8 C. 9 D. 10 E. 12

Q4. Which of these numbers has no factors apart from 1 and itself?

- A. 111 B. 113 C. 115 D. 117 E. 119

Q5. What is 14 squared?

- A. 28 B. 186 C. 194 D. 196 E. 216

Q6. What is the square root of 225?

- A. 12 B. 15 C. 25 D. 45 E. 112.5

Q7. Which of these numbers is divisible by 11?

- A. 118 B. 121 C. 134 D. 145 E. 152

Q8. Two taps drip at the same moment. One drips every 9 seconds and the other every 12 seconds. After how many seconds do they next drip together?

- A. 3 B. 18 C. 21 D. 36 E. 108

Q9. Priya has 72 red beads and 54 blue beads. She makes identical necklaces using all the beads. What is the greatest number of necklaces she can make?

- A. 6 B. 9 C. 12 D. 18 E. 27

Q10. Which of these temperatures is the lowest?

- A. -15°C B. -12°C C. -7°C D. 0°C E. 3°C

Q11. Which number in this list is a cube number?

- A. 100 B. 125 C. 150 D. 175 E. 200

Q12. Which of these numbers between 40 and 50 is a prime number?

- A. 42 B. 44 C. 45 D. 47 E. 48

Q13. A number between 20 and 30 is a multiple of both 3 and 4. What is the number?

- A. 21 B. 22 C. 24 D. 26 E. 28

Q14. What is the sum of the first four square numbers?

- A. 20 B. 25 C. 30 D. 36 E. 55

Q15. A class of 24 pupils is split into equal groups. Each group has more than 1 pupil and fewer than 24 pupils. How many different group sizes are possible?

- A. 4 B. 5 C. 6 D. 7 E. 8