

Number Properties: Hard Practice Paper 2

Q1. What is the highest common factor (HCF) of 96 and 144?

- A. 12 B. 16 C. 24 D. 48 E. 96

Q2. What is the lowest common multiple (LCM) of 6, 8 and 9?

- A. 18 B. 36 C. 72 D. 144 E. 432

Q3. Which of these numbers has exactly 3 factors?

- A. 15 B. 21 C. 25 D. 27 E. 33

Q4. How many prime numbers are there between 50 and 70?

- A. 3 B. 4 C. 5 D. 6 E. 7

Q5. Two numbers have a highest common factor of 8 and a lowest common multiple of 48. One of the numbers is 16. What is the other number?

- A. 6 B. 12 C. 24 D. 32 E. 40

Q6. What is the smallest number that must be subtracted from 100 to make a multiple of 7?

- A. 2 B. 3 C. 4 D. 5 E. 6

Q7. What is the square root of 9×16 ?

- A. 7 B. 12 C. 25 D. 144 E. 576

Q8. What is $-15 + 8 - (-4)$?

- A. -27 B. -11 C. -3 D. 3 E. 27

Q9. A bag of sweets can be shared equally among 4 children or among 6 children, and each time exactly 2 sweets are left over. What is the smallest possible number of sweets?

- A. 8 B. 12 C. 14 D. 24 E. 26

Q10. Which of these numbers is a multiple of 3 but NOT a multiple of 9?

- A. 27 B. 36 C. 45 D. 54 E. 66

Q11. Which of these numbers is divisible by both 6 and 8?

- A. 36 B. 40 C. 54 D. 64 E. 72

Q12. A cube-shaped box has a volume of 64 cm^3 . What is the length of one edge?

- A. 4 cm B. 8 cm C. 16 cm D. 21 cm E. 32 cm

Q13. How many numbers from 1 to 60 are multiples of both 4 and 6?

- A. 3 B. 4 C. 5 D. 6 E. 10

Q14. What is the sum of the first six prime numbers?

- A. 28 B. 36 C. 41 D. 44 E. 58

Q15. In a quiz, each correct answer scores 5 points and each wrong answer loses 2 points. Ana gets 8 questions right and 6 wrong. What is her score?

- A. 14 B. 22 C. 26 D. 28 E. 52