

Number Properties: Hard Practice Paper 3

Q1. What is the highest common factor (HCF) of 45 and 75?

- A. 3 B. 5 C. 9 D. 15 E. 25

Q2. What is the lowest common multiple (LCM) of 10, 12 and 15?

- A. 30 B. 45 C. 60 D. 120 E. 180

Q3. Which of these numbers has the most factors?

- A. 16 B. 21 C. 24 D. 25 E. 35

Q4. Which of these numbers is not prime?

- A. 59 B. 61 C. 67 D. 69 E. 71

Q5. A number between 100 and 150 is a multiple of both 7 and 9. What is the number?

- A. 105 B. 112 C. 126 D. 133 E. 144

Q6. What is the smallest number that must be added to 200 to make a multiple of 12?

- A. 2 B. 4 C. 6 D. 8 E. 10

Q7. What is the square root of 361?

- A. 17 B. 19 C. 21 D. 23 E. 180.5

Q8. The temperature is -4°C . It falls by 7 degrees and then rises by 3 degrees. What is the final temperature?

- A. -14°C B. -8°C C. -2°C D. 6°C E. 8°C

Q9. Which of these numbers is a square number and also an even number?

- A. 25 B. 49 C. 64 D. 81 E. 121

Q10. Pencils come in packs of 10 and rubbers come in packs of 6. What is the smallest number of pencils and rubbers a shop can buy so that it has the same number of each?

- A. 6 B. 10 C. 16 D. 30 E. 60

Q11. How many factors does 90 have?

- A. 8 B. 10 C. 11 D. 12 E. 14

Q12. Which of these is a cube number that is greater than 100?

- A. 121 B. 125 C. 144 D. 169 E. 196

Q13. Cards numbered 1 to 40 are laid out. How many of them show a prime number?

- A. 10 B. 11 C. 12 D. 13 E. 14

Q14. The product of two numbers is 240 and their highest common factor is 4. What is their lowest common multiple?

- A. 20 B. 40 C. 60 D. 80 E. 120

Q15. A diver is 18 metres below sea level. She rises 7 metres, then descends 4 metres. How far below sea level is she now?

- A. 11 metres B. 15 metres C. 21 metres D. 25 metres E. 29 metres

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