

76. Prime Numbers and Their Properties

Practice Questions

1. List the first 5 prime numbers.
2. Is 51 a prime number?
3. What is the smallest prime number?
4. Find the largest prime number under 20.
5. What is the sum of the first three prime numbers?
6. How many even prime numbers exist?
7. What is the only even prime number?
8. Is 97 a prime number?
9. What are the prime factors of 30?
10. Identify a prime number: 12, 17, 20, 25.

Scenario Questions

1. A shop sells boxes of 7 chocolates. Why is 7 a special number in mathematics?
2. A teacher arranges students in rows of 5 or 7 and finds some students always left out. What does this indicate?
3. A security code is always a prime number. What could it be: 44, 53, 100?
4. A dice lands on prime numbers only. What are the possible outcomes?
5. A number plate system allows only prime numbers up to 50. List 3 valid numbers.
6. A flower shop arranges flowers in groups of prime numbers. Could a bunch have 28 flowers?
7. A student claims 27 is prime. Explain why they are wrong.
8. A box contains 29 chocolates. Can they be split into equal groups of more than 1?
9. A chef cuts a cake into 23 equal pieces. Can they be arranged in rows of more than 1 piece per row?
10. A computer security code must be a prime number between 80 and 100. What number could be used?

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Practice Questions

1. 2, 3, 5, 7, 11
2. No
3. 2
4. 19
5. 10 ($2 + 3 + 5$)
6. 1
7. 2
8. Yes
9. 2, 3, 5
10. 17

Scenario Questions

1. 7 is a prime number.
2. The number of students is not a multiple of 5 or 7.
3. 53
4. 2, 3, 5
5. 41, 43, 47
6. No, 28 is not a prime number.
7. 27 is divisible by 3 and 9.
8. No, 29 is a prime number.
9. No, 23 is a prime number.
10. 83, 89, 97