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1. Which of the following is not a primitive data type in Java?
   a) int
   b) float
   c) String
   d) char
 2. What is the size of a byte in Java?
   a) 4 bits
   b) 8 bits
   c) 16 bits
   d) 32 bits
 3. What is the default value of a boolean variable in Java?
   a) true
   b) false
   c) 0
   d) null
 4. Which data type should be preferred for storing currency values precisely?
   a) float
   b) double
   c) int
   d) BigDecimal
 5. Which of these can store the largest value?
   b) float
   c) double
   d) long
 6. Which of the following data types does not allow decimals?
   a) int
   b) float
   c) double
   d) all allow decimals
 7. What is the result type of this expression: 5 + 2.0?
   a) int
   b) float
   c) double
   d) long
 8. Which data type should be used to store a single character?
   a) String
   b) char
   c) byte
   d) character
 9. Which of these values can a char store in Java?
   a) Only alphabetic letters
   b) Only numbers
   c) A single Unicode character
   d) A string of characters
10. Which of the following is a valid declaration of a short variable?
   a) short s = 100000;
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c) short s = 3.14;
   d) short s = "10";
11. Which keyword is used to define a constant value?
   a) static
   b) const
   c) final
   d) define
12. Which is the correct literal for a long value?
   a) 100L
   b) 1001
   c) Both a and b
   d) Just 100
13. What will be the type of the result of 5 / 2 in Java?
   a) float
   b) double
   c) int
   d) long
14. What happens when you assign a double value to an int variable directly?
   a) It gets automatically converted
   b) Compilation error
   c) Rounded off
   d) Value becomes null
15. How many bytes does a double take in memory?
   a) 2
   b) 4
   c) 8
   d) 16
16. Which is larger in range: int or float?
   b) float
   c) both are same
   d) depends on the number
17. Which of the following data types can cause a loss of precision during
   conversion?
   a) int to long
   b) double to float
   c) long to float
   d) float to double
18. Which of these will cause a compile-time error?
   a) byte b = 128;
   b) int i = 1000;
   c) char c = 'A';
   d) float f = 12.3f;
19. What will be the result of this expression: 'A' + 1?
   a) B
   b) A1
   c) 66
   d) Error
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b) short s = 'A';

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20. Which of these is not true for Java primitive data types?
    a) They are not objects
    b) They are stored by value
    c) They all start with uppercase letters
    d) They have fixed sizes
21. Which of the following data types is signed?
    a) byte
    b) char
    c) short
    d) All except char
22. Which value is valid for a byte variable?
    a) 200
    b) -130
    c) 0
    d) 300
23. What is the range of a Java short?
    a) -128 to 127
    b) -32,768 to 32,767
    c) -2^31 to 2^31 - 1
    d) 0 to 65535
24. Which is the smallest floating-point data type in Java?
    a) float
    b) double
    c) decimal
    d) real
25. Which of the following is true about a String?
    a) It is a primitive type
    b) It can be null
    c) It holds only one character
    d) It is stored by value
26. Which is a correct way to declare a float value?
    a) float f = 1.2;
    b) float f = "1.2f";
    c) float f = 1.2f;
    d) float f = (float)"1.2";
27. What will be the output of: System.out.println(10/0);
    a) Infinity
    b) 0
    c) ArithmeticException
    d) Compilation Error
28. Which of the following is not allowed?
    a) double d = 12.3;
    b) int i = 'A';
    c) char c = 65;
    d) boolean b = 0;
29. In which situation is type casting required?
    a) int to byte
    b) long to int
    c) double to int
    d) All of the above
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- 30. What is the size of a char in Java?
  - a) 8 bits
  - b) 16 bits
  - c) 32 bits
  - d) Platform-dependent