Number Representation

1. Convert this binary number to denary. (1)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |  |  |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |  |

2. Convert this binary number to denary. (1)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |  |  |
| 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |  |

3. Convert this binary number to denary. (1)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |  |  |
| 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |  |

4. Convert this binary number to denary. (1)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |  |  |
| 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 |  |

5. Convert this binary number to denary. (1)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |  |  |
| 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |  |

6. Convert the denary number 20 into binary. (1)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |
|  |  |  |  |  |  |  |  |

7. Convert the denary number 192 into binary. (1)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |
|  |  |  |  |  |  |  |  |

8. Convert the denary number 68 into binary. (1)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |
|  |  |  |  |  |  |  |  |

9. Convert the denary number 15 into binary. (1)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |
|  |  |  |  |  |  |  |  |

10. Convert the denary number 255 into binary. (1)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **128** | **64** | **32** | **16** | **8** | **4** | **2** | **1** |
|  |  |  |  |  |  |  |  |

11. Convert the binary number 110101 into denary. (2)

|  |
| --- |
|  |

12. Convert the binary number 10110111 into denary. (2)

|  |
| --- |
|  |

13. Convert the denary number 78 into binary. (2)

|  |
| --- |
|  |

14. Convert the denary number 63 into binary. (2)

|  |
| --- |
|  |

15. Convert this hexadecimal number into binary. (1)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **4** | | | | **B** | | | |
|  |  |  |  |  |  |  |  |

16. Convert this hexadecimal number into binary. (1)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **F** | | | | **A** | | | |
|  |  |  |  |  |  |  |  |

17. Convert this binary number into hexadecimal. (1)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **0** | **1** | **1** | **0** | **1** | **1** | **1** | **1** |
|  | | | |  | | | |

18. Convert this binary number into hexadecimal. (1)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **0** | **1** | **0** | **1** | **1** | **1** | **0** | **1** |
|  | | | |  | | | |

19. Convert the denary number 186 into hexadecimal. (3)

|  |
| --- |
|  |

20. Convert the denary number 97 into hexadecimal. (3)

|  |
| --- |
|  |

21. Convert the hexadecimal number A7 into denary. (2)

|  |
| --- |
|  |

22. Convert the hexadecimal number FF into denary. (2)

|  |
| --- |
|  |