

Number System Conversions

Name: _____ Date: _____

Fill in the blanks to each of the statements, converting the values from one number system to the others.

- (1) 11101 in binary is equal to 29 in decimal.
- (2) B in hexadecimal is equal to _____ in binary and _____ in decimal.
- (3) 78 in hexadecimal is equal to _____ in binary.
- (4) 20 in hexadecimal is equal to _____ in binary and _____ in decimal.
- (5) 128 in decimal is equal to _____ in binary.
- (6) 100100 in binary is equal to _____ in hexadecimal.
- (7) 5F in hexadecimal is equal to _____ in decimal and _____ in binary.
- (8) 110 in binary is equal to _____ in decimal.
- (9) 4E in hexadecimal is equal to _____ in decimal.
- (10) 215 in decimal is equal to _____ in binary.
- (11) 1110000 in binary is equal to _____ in hexadecimal and _____ in decimal.
- (12) 11100111 in binary is equal to _____ in decimal and _____ in hexadecimal.
- (13) F9 in hexadecimal is equal to _____ in binary and _____ in decimal.
- (14) FA in hexadecimal is equal to _____ in decimal.
- (15) 11100110 in binary is equal to _____ in decimal and _____ in hexadecimal.
- (16) 213 in decimal is equal to _____ in hexadecimal.
- (17) AF in hexadecimal is equal to _____ in decimal and _____ in binary.
- (18) F2 in hexadecimal is equal to _____ in decimal and _____ in binary.
- (19) 156 in decimal is equal to _____ in binary.

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ANSWER KEY

Fill in the blanks to each of the statements, converting the values from one number system to the others.

- (1) 11101 in binary is equal to 29 in decimal.
- (2) B in hexadecimal is equal to 1011 in binary and 11 in decimal.
- (3) 78 in hexadecimal is equal to 1111000 in binary.
- (4) 20 in hexadecimal is equal to 100000 in binary and 32 in decimal.
- (5) 128 in decimal is equal to 10000000 in binary.
- (6) 100100 in binary is equal to 24 in hexadecimal.
- (7) 5F in hexadecimal is equal to 95 in decimal and 1011111 in binary.
- (8) 110 in binary is equal to 6 in decimal.
- (9) 4E in hexadecimal is equal to 78 in decimal.
- (10) 215 in decimal is equal to 11010111 in binary.
- (11) 1110000 in binary is equal to 70 in hexadecimal and 112 in decimal.
- (12) 11100111 in binary is equal to 231 in decimal and E7 in hexadecimal.
- (13) F9 in hexadecimal is equal to 11111001 in binary and 249 in decimal.
- (14) FA in hexadecimal is equal to 250 in decimal.
- (15) 11100110 in binary is equal to 230 in decimal and E6 in hexadecimal.
- (16) 213 in decimal is equal to D5 in hexadecimal.
- (17) AF in hexadecimal is equal to 175 in decimal and 10101111 in binary.
- (18) F2 in hexadecimal is equal to 242 in decimal and 11110010 in binary.
- (19) 156 in decimal is equal to 10011100 in binary.