# Number System Conversions

**Name:** _____    **Date:** _____

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

( 1 )   2 in decimal is equal to ____ in binary

( 2 )   3 in decimal is equal to ____ in binary

( 3 )   110 in binary is equal to ____ in decimal

( 4 )   111 in binary is equal to ____ in decimal

( 5 )   9 in hexadecimal is equal to ____ in decimal and ____ in octal

( 6 )   91 in decimal is equal to ____ in hexadecimal and _____ in binary

( 7 )   310 in octal is equal to ____ in decimal

( 8 )   101011001 in binary is equal to ____ in decimal and ____ in octal

( 9 )   884 in decimal is equal to _____ in octal and ____ in hexadecimal

(10)   5 in decimal is equal to ____ in octal

(11)   45 in hexadecimal is equal to ____ in decimal and _____ in binary

(12)   10101111 in binary is equal to ____ in decimal

(13)   1EA in hexadecimal is equal to ____ in decimal and ____ in octal

(14)   111101101 in binary is equal to ____ in decimal

(15)   645 in decimal is equal to _____ in octal

(16)   776 in decimal is equal to _____ in binary

(17)   966 in decimal is equal to _____ in octal and ____ in hexadecimal

(18)   1717 in octal is equal to ____ in decimal

(19)   994 in decimal is equal to _____ in octal

# Number System Conversions
## A N S W E R   K E Y

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

( 1 )  2 in decimal is equal to __10__ in binary

( 2 )  3 in decimal is equal to __11__ in binary

( 3 )  110 in binary is equal to __6__ in decimal

( 4 )  111 in binary is equal to __7__ in decimal

( 5 )  9 in hexadecimal is equal to __9__ in decimal and __11__ in octal

( 6 )  91 in decimal is equal to __5B__ in hexadecimal and __1011011__ in binary

( 7 )  310 in octal is equal to __200__ in decimal

( 8 )  101011001 in binary is equal to __345__ in decimal and __531__ in octal

( 9 )  884 in decimal is equal to __1564__ in octal and __374__ in hexadecimal

(10)  5 in decimal is equal to __5__ in octal

(11)  45 in hexadecimal is equal to __69__ in decimal and __1000101__ in binary

(12)  10101111 in binary is equal to __175__ in decimal

(13)  1EA in hexadecimal is equal to __490__ in decimal and __752__ in octal

(14)  111101101 in binary is equal to __493__ in decimal

(15)  645 in decimal is equal to __1205__ in octal

(16)  776 in decimal is equal to __1100001000__ in binary

(17)  966 in decimal is equal to __1706__ in octal and __3C6__ in hexadecimal

(18)  1717 in octal is equal to __975__ in decimal

(19)  994 in decimal is equal to __1742__ in octal