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) 10 in decimal is equal to _____ in binary

(3) 11101 in binary is equal to ____ in decimal

(4) 53 in decimal is equal to _____ in binary

(5) 74 in decimal is equal to _____ in binary

(6) 1000101011 in binary is equal to ____ in decimal

(7) 1011110000 in binary is equal to ____ in decimal

(8) 1001001111111 in binary is equal to _____ in decimal

(9) 5,621 in decimal is equal to _____ in binary

(10) 8,297 in decimal is equal to _____ in binary

(11) 11 in binary is equal to ____ in decimal

(12) 1000 in binary is equal to ____ in decimal

(13) 1100100 in binary is equal to ____ in decimal

(14) 111010001 in binary is equal to ____ in decimal

(15) 1010100000 in binary is equal to ____ in decimal

(16) 4,591 in decimal is equal to _____ in binary

(17) 5,209 in decimal is equal to _____ in binary

(18) 1011110001111 in binary is equal to _____ in decimal

(19) 10001100000101 in binary is equal to _____ in decimal

(20) 10011000111000 in binary is equal to _____ in decimal

Number System Conversions
ANSWER KEY

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) 10 in decimal is equal to 1010 in binary

(3) 11101 in binary is equal to 29 in decimal

(4) 53 in decimal is equal to 110101 in binary

(5) 74 in decimal is equal to 1001010 in binary

(6) 1000101011 in binary is equal to 555 in decimal

(7) 1011110000 in binary is equal to 752 in decimal

(8) 1001001111111 in binary is equal to 4,735 in decimal

(9) 5,621 in decimal is equal to 1010111110101 in binary

(10) 8,297 in decimal is equal to 10000001101001 in binary

(11) 11 in binary is equal to 3 in decimal

(12) 1000 in binary is equal to 8 in decimal

(13) 1100100 in binary is equal to 100 in decimal

(14) 111010001 in binary is equal to 465 in decimal

(15) 1010100000 in binary is equal to 672 in decimal

(16) 4,591 in decimal is equal to 1000111101111 in binary

(17) 5,209 in decimal is equal to 1010001011001 in binary

(18) 1011110001111 in binary is equal to 6,031 in decimal

(19) 10001100000101 in binary is equal to 8,965 in decimal

(20) 10011000111000 in binary is equal to 9,784 in decimal