

# Number System Conversions

Name: \_\_\_\_\_ Date: \_\_\_\_\_



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

- |  |  |
|--|--|
| (1) 1000 in binary is equal to _____ in decimal        | (11) 100 in binary is equal to _____ in decimal        |
| (2) 10000 in binary is equal to _____ in decimal       | (12) 101 in binary is equal to _____ in decimal        |
| (3) 10010 in binary is equal to _____ in decimal       | (13) 111 in binary is equal to _____ in decimal        |
| (4) 10111 in binary is equal to _____ in decimal       | (14) 1010 in binary is equal to _____ in decimal       |
| (5) 100100 in binary is equal to _____ in decimal      | (15) 10010111 in binary is equal to _____ in decimal   |
| (6) 1000011 in binary is equal to _____ in decimal     | (16) 10100000 in binary is equal to _____ in decimal   |
| (7) 11011100 in binary is equal to _____ in decimal    | (17) 101100011 in binary is equal to _____ in decimal  |
| (8) 1000000111 in binary is equal to _____ in decimal  | (18) 1101110011 in binary is equal to _____ in decimal |
| (9) 1011000110 in binary is equal to _____ in decimal  | (19) 1110000000 in binary is equal to _____ in decimal |
| (10) 1011001110 in binary is equal to _____ in decimal | (20) 1110110110 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) 1000 in binary is equal to <u>8</u> in decimal          | (11) 100 in binary is equal to <u>4</u> in decimal          |
| (2) 10000 in binary is equal to <u>16</u> in decimal        | (12) 101 in binary is equal to <u>5</u> in decimal          |
| (3) 10010 in binary is equal to <u>18</u> in decimal        | (13) 111 in binary is equal to <u>7</u> in decimal          |
| (4) 10111 in binary is equal to <u>23</u> in decimal        | (14) 1010 in binary is equal to <u>10</u> in decimal        |
| (5) 100100 in binary is equal to <u>36</u> in decimal       | (15) 10010111 in binary is equal to <u>151</u> in decimal   |
| (6) 1000011 in binary is equal to <u>67</u> in decimal      | (16) 10100000 in binary is equal to <u>160</u> in decimal   |
| (7) 11011100 in binary is equal to <u>220</u> in decimal    | (17) 101100011 in binary is equal to <u>355</u> in decimal  |
| (8) 1000000111 in binary is equal to <u>519</u> in decimal  | (18) 1101110011 in binary is equal to <u>883</u> in decimal |
| (9) 1011000110 in binary is equal to <u>710</u> in decimal  | (19) 1110000000 in binary is equal to <u>896</u> in decimal |
| (10) 1011001110 in binary is equal to <u>718</u> in decimal | (20) 1110110110 in binary is equal to <u>950</u> in decimal |