

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) 10,182 in decimal is equal to _____ in octal and _____ in binary.
- (2) 112257 in octal is equal to _____ in binary and _____ in decimal.
- (3) 5,280 in decimal is equal to _____ in octal and _____ in binary.
- (4) 14,671 in decimal is equal to _____ in binary and _____ in octal.
- (5) 3005 in octal is equal to _____ in decimal.
- (6) 9A51 in hexadecimal is equal to _____ in octal and _____ in decimal.
- (7) 11000000010010010 in binary is equal to _____ in hexadecimal and _____ in decimal.
- (8) 65,377 in decimal is equal to _____ in octal.
- (9) 244133 in octal is equal to _____ in hexadecimal.
- (10) D53D in hexadecimal is equal to _____ in binary and _____ in octal.
- (11) 1111000000110010 in binary is equal to _____ in octal and _____ in hexadecimal.

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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) 10,182 in decimal is equal to 23706 in octal and 1001111000110 in binary.
- (2) 112257 in octal is equal to 100101001010111 in binary and 38,063 in decimal.
- (3) 5,280 in decimal is equal to 12240 in octal and 1010010100000 in binary.
- (4) 14,671 in decimal is equal to 1110010100111 in binary and 34517 in octal.
- (5) 3005 in octal is equal to 1,541 in decimal.
- (6) 9A51 in hexadecimal is equal to 115121 in octal and 39,505 in decimal.
- (7) 11000000010010010 in binary is equal to 18092 in hexadecimal and 98,450 in decimal.
- (8) 65,377 in decimal is equal to 177541 in octal.
- (9) 244133 in octal is equal to 1485B in hexadecimal.
- (10) D53D in hexadecimal is equal to 1101010100111101 in binary and 152475 in octal.
- (11) 1111000000110010 in binary is equal to 170062 in octal and F032 in hexadecimal.