To convert 1101000 base 2 to base 8, first convert 11101000 base 2 to base 10.

11101000 base 2 = 0 times 2^0

+ 0 times 2^1

+ 0 times 2^2

+ 1 times 2^3

+ 0 times 2^4

+ 1 times 2^5

+ 1 times 2^6

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104 base 10

Now convert 104 base 10 to base 8.

104/8 is 13 with a remainder of 0

13/8 is 1 with a remainder of 5

1/8 is 0 with a remainder of 1

So 104 base 10 = 150 base 8.

Therefore, 1101000 base 2 = 150 base 8.