Convert Hex to Decimal

Q. Convert the hexadecimal number 4A into decimal.

Convert Hex to Decimal

A = 10
B = 11
C = 12
D = 13
E = 14
F = 15

1. Split the number in two

$$4 \qquad A$$

2. Multiply the first number by 16

$$4 \times 16 = 64$$

3. Add the second number to it

$$64 + A = 64 + 10 = 74$$

Convert Hex to Decimal

The key is to remember that the first number is 16s and the second number is 1s

16s	1s
4	A

Convert Decimal to Hex

Q. Convert the decimal number 43 into hexadecimal.

Convert Decimal to Hex

A = 10
B = 11
C = 12
D = 13
E = 14
F = 15

1. How many 16s go into it?

$$43 \div 16 = 2 \ (2 \times 16 = 32)$$

2. This is the first half of the hex number

3. Work out what's left to add - this is the second half

$$43 - 32 = 11 = B \text{ in hex}$$

Answer = 2B   (Two 16s plus 11)

Convert Decimal to Hex

Q. Convert the decimal number 189 into hexadecimal.

A = 10
B = 11
C = 12
D = 13
E = 14
F = 15

Don't forget: non calculator paper...