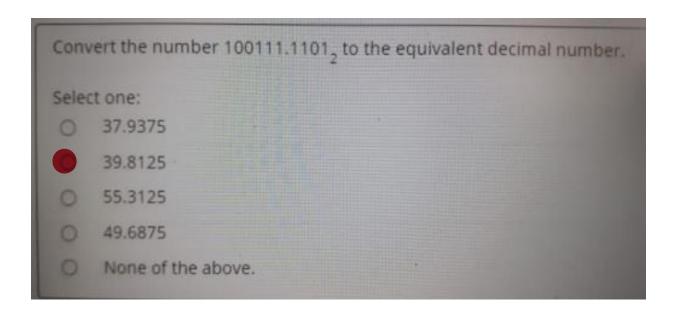
LESSON 1



$$100111.1101_{2}$$

$$100111.1101_{2}$$

$$2^{5} 2^{7} 2^{3} 2^{5} 2^{1} 2^{6}$$

$$= (32\times1) + (16\times0) + (6\times0) + (4\times1) + (2\times1) + (1\times1)$$

$$= 32 + 0 + 0 + 4 + 2 + 1$$

$$= 39$$

$$\begin{array}{lll} . & 1 & 1 & 0 & 1 & 1 & 0 & 0 & 1 & 1 & 0 & 1 \\ \frac{1}{2}, & \frac{1}{2},$$

Convert the number 300.75₁₀ to the equivalent binary number. Select one:

- 0 100010001.01
- 0 100010001.111
- 0 100101100.11
- 0 1111101.001
- O None of the above.

100010001.0

$$273.25_{10}$$

$$100010001 \frac{293}{-15}$$

$$0.2542 = 0.50 \downarrow$$

$$0.5042 = 1.0 \checkmark$$

$$= 100010001.01_{24}$$

Convert the number 1061, to equivalent decimal numbers.

- 561
- 0 692
- O 298
- O 332
- O None of the above.

Convert the number 165 to a base 5 fumber system.

- 2200
- O 4412
- 1133
- 2000
- None of the above

Convert the number 167₁₀ to a base 11 positional number system.

- O 20A
- 0 812
- 0 113
- O 11B
- None of the above.

Convert the number 221122, to equivalent decimal numbers.

- 561
- 692
 - 0 298
 - O 332
 - None of the above.

$$= (2 + 243) + (81 \times 1) + (27 \times 1) + (9 \times 1) + (3 \times 2) + (1 + 2)$$