

(a) (1.5) = (?) 2

The integer part (1) pives (1) 2 Sive 1 [2 -20 -1)

The decimal part (0.5) to sives ?

 $0.5 \times 2 = 1$ Therefore, $(1.5)_{10} = (1.1)_{2}$

(b) (1.05) = (?)

The integer part (1) 2 since:

1 [2
-0 0
(1)

The decimal part $(0.05)_{b}$ Sives: $0.05 \times 2 = 0.1$; keep (0). $0.8 \times 2 = 1.6$; keep (1) $0.1 \times 2 = 0.2$; 11 (0) $0.6 \times 2 = 1.2$; 11 (1) $0.2 \times 2 = 0.4$; 11 (0) $0.2 \times 2 = 0.4$; 11 (0) $0.4 \times 2 = 0.4$; 11 (0) $0.4 \times 2 = 0.8$; 11 (0)11 (0) This means that; $(1.05)_2 = (1.0000110---)_2$ $(2)(a)(1.5)_{10} = (?)_2$ In the floating point $(0.5)_{10}$ gives; $0.5 \times 2 = 0$; Hence $(0.5)_{10} = (0.1)_2$ $(1.5)_{10} = (1.1)_2$ Since the int $(5.5)_{10} = (?)_2$

Sol: floating point (0.5)