Conversion with decimal paints: * Any number with decimal point has the parts: Integral Port, fractional part e = 2.718
Integral fractional part
Part fractional part de (doud de doud de doud de doud de l'action de l'action l'action de l'action

Decimal to other Base System * Integral Part can be converted using Repeated division Method in Decimal to other Base System * Fractional Part Can be Converted Using fraction Brodul Algorithm Ex (37.625) (x)
Repeated Multiplication

Method

Division Method

fractional
$$\times$$
 modix = Number fractional \times store fractional \times modix = Number of the store o

78.025) Integral Part = 78, fractional part = 0.025 Solving integral Part Stone $0.025 \times 16 = 6.40$ 143 E 1 78 0.40 X 16 6.40 0.40 X16 6.40 4/16 9=0 0.40 X16 78) -(18) - $\left(0.025^{-}\right)$ (46) (0666...) 78.025) =

Other Base System to decimal: > [Same] - Weighbage Sum of Broduct

Subgraf Southing Point, the weighbage become

negative d= (d_n...d₃ d₂ d₁ d₂...d₁)

d= (d_n...d₃ d₂ d₃...d_n)

m $d_{10} = \left(d_{1} n^{\frac{1}{1}} + d_{3} r^{3} + d_{2} r^{2} + d_{1} n^{\frac{1}{1}} + d_{0} n^{0} \cdot d_{-1} n^{\frac{1}{1}} + d_{-2} n^{-2} + d_{-3} n^{-3} \dots d_{-n} n^{-n} \right)$ $= \left(d_{1} n^{\frac{1}{1}} + d_{3} r^{3} + d_{2} r^{2} + d_{1} n^{1} + d_{0} n^{0} \cdot d_{-1} n^{\frac{1}{1}} + d_{-2} n^{-2} + d_{-3} n^{-3} \dots d_{-n} n^{-n} \right)$ $= \left(d_{1} n^{\frac{1}{1}} + d_{2} r^{3} + d_{2} r^{2} + d_{1} n^{2} + d_{2} n^{2} + d_{2} n^{-2} + d_{-3} n^{-3} \dots d_{-n} n^{-n} \right)$

$$0xx^{6} + 1xx^{5} + 1xx^{7} + 0xx^{3} + 1xx^{2} + 1xx^{1} + 0xx^{6} + 1xx^{7} + 0xx^{7} + 1xx^{2} + 0xx^{2} + 1xx^{2} + 0xx^{7}$$

$$\Rightarrow$$
 32+16+4+2+ $\frac{1}{2}$ + $\frac{1}{8}$

$$= 32+16+4+2+0.5+0.125^{-1}$$

$$= 54+0.625$$

$$= (54.625)_{10}$$

$$\overset{\mathcal{E}_{\mathbf{x}}}{=} (7632.15) \xrightarrow{\mathcal{S}} (\mathbf{x})_{10}$$

$$7x8^{3} + 6x8^{2} + 3x8' + 2x8' + 1x8'' + 5x8^{-2}$$

$$7x512+6x64+3x8+2+\frac{1}{8}+\frac{5}{8^2}$$

$$\frac{1}{8}$$
 = $\frac{1}{3}$

$$=$$
) $3584 + 384 + 26 + 0.125 + 0.078125$

$$=)399440.125+0.78125$$

$$=)$$
 3994 + 0.90625

$$= 13 \times 16^{3} + 18 \times 16^{2} + 64 + 15 + \frac{16}{16} + \frac{162}{162}$$

$$= 13 \times 16^{3} + 18 \times 16^{2} + 64 + 15 + \frac{1}{16} + \frac{162}{162}$$

$$= 53248 + 3072 + 79 + 0.0625 + 0.00390625 -$$

$$= (56399.06640625)$$