(4)
$$10111 \rightarrow 2^{7} + 2^{2} + 2^{1} + 2^{0} = 16 + 4 + 2 + 1 = 123$$

(e) Six
$$\rightarrow 2^2 + 2$$

=110

= 111

25=11001

15=1111

13) (a)
$$1S = 1111$$

 $1S = 7 - 1$
 $1S = 7 - 1$
 $1S = 3 - 1$

(b)
$$\frac{21}{2} = 10 - 1$$
 $\frac{21 = 10101}{10}$ $\frac{5}{2} = 5 - 0$ $\frac{5}{2} = 2 - 1$ $\frac{2}{2} = 1 - 0$ $\frac{1}{2} = 0$ (1

(c)
$$\frac{28}{2} = 14 - 0$$

$$\frac{14}{2} = 7 - 0$$

$$\frac{7}{2} = 3 - 1$$

$$\frac{3}{2} = 1 - 1$$

(c)
$$\frac{28}{2} = 14 - 0$$
 $\frac{28 = 11100}{2}$ (d) $\frac{34}{2} = 17 \text{ ro}$ $\frac{47}{2} = 8 \text{ ri}$ $\frac{7}{2} = 3 \text{ ri}$ $\frac{8}{2} = 4 \text{ ro}$ $\frac{47}{2} = 2 \text{ ro}$ $\frac{47}{2} = 1 \text{ ro}$ $\frac{1}{2} = 0 \text{ ri}$

$$\frac{5q}{2} = 2q - 1 \sqrt{5q} = 111011$$

$$\frac{2q}{2} = 1q - 1$$

$$\frac{1q}{2} = 7 - 0$$

$$\frac{7}{2} = 3 - 1$$

$$\frac{7}{3} = 1 - 1$$

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

1 =0 - 1

N= (-1) S(1+F)(2=-127) = (-1')(1+F) 2x2 = 1.01071001110001 x22

N=(-1-010010411001)2, (4.0404)

25+27=48 S E F $N = (-1)^{S}(1+f)(2^{E-127})$ $N = -1(1.01100)(2^{48-127})$ $N = -1(1.01100)(2^{-79})$ n = -1.011 (2-79) N= -1.67 X (0-24)