1 F= Fs = Zs

(a) Multiplicative inverse of 1,2,3,4 of 1F

1*4 % 5 = 1

2*3% 5 = 1

For other values in IF, the multiplicative inverse doesn't lie in IF.

Thus,

4,4

1, 1

2,3

(b)

(a)
$$\binom{2}{4} + \binom{3}{1} = \binom{1}{4} = \binom{1}{5}$$

$$|F_{5} = Z_{5} = \{0, 1, 2, 3, 4\}$$

5 \$ 1F5

$$(c)$$
 $4\left(\frac{3}{2}\right) = \left(\frac{2}{3}\right)$

$$(d) \quad 3. \quad \left(\begin{array}{c} 2 \\ 3 \\ 4 \end{array}\right) = \left(\begin{array}{c} 6 \\ 9 \\ 12 \end{array}\right)$$