$$E_{x}$$
 1:

$$\begin{array}{ll}
4. & \mathcal{L} = \left\{ (1,1,1); (1,1,1); (1,2,1); (1,2,1); (1,2,2); (2,1,1); (2,1,2); (2,2,2$$

Mantage prévu -> 
$$(2,2,1)$$
  
 $P((2,2,1)) = \frac{L}{8}$ 

2. Example: 
$$X((2,2,1)) = 2+2+1=5$$
  
 $X((1,1,1)) = 3$   $X((4,1,2)) = 4$   
 $X((4,2,1)) = 4$   $X((1,2,2)) = 5$   
 $X((2,1,1)) = 4$   $X((2,1,2)) = 5$ 

X((2,2,1)) = 5 X((2,2,2)) = 6

La de probabilité de X:

×;	3	4	5	کم	
P(X=xi)	1/8	3/8	3/8	1/8	

3. 
$$P(X \le 4) = \frac{4}{8} + \frac{3}{8} = \frac{4}{8} = \frac{1}{2}$$

4. 
$$E(X) = \frac{7}{8} P_1 X_1 = \frac{3}{8} + \frac{12}{8} + \frac{15}{8} + \frac{15}{8} = 4.5$$

$$V(X) = \frac{9}{8} + \frac{16 \times 3}{8} + \frac{25 \times 3}{8} + \frac{36}{8} - 4.5^2 =$$

$$= \frac{9}{8} + \frac{18}{8} + \frac{45}{8} + \frac{36}{8} - 4.5^2 =$$

$$= 21 - 4.5^2 = 21 - 20.28 = 0.45$$

$$\sigma(X) = \sqrt{V(X)} = \sqrt{0.78} = 0.866$$