

حل كوني ٣ :

$$\frac{P_x}{P_y} = \frac{\frac{1}{\text{Ex. Time } x}}{\frac{1}{\text{Ex. Time } y}} = \frac{\text{Ex. Time } y}{\text{Ex. Time } x}$$

$ZD < 0$

$$\frac{0.4 \times \frac{1}{2} + 0.15 \times 2 + 0.05 \times 2 + 0.3 \times 5 + 0.1 \times 10}{0.4 \times 1 + 0.15 \times 2 + 0.05 \times 2 + 0.3 \times 5 + 0.1 \times \frac{10}{4}} =$$

$$= \frac{3.1}{2.55} \approx 1.2$$

$ZD < 1$

$$\frac{0.4 \times \frac{1}{3} + 0.15 \times 2 + 0.05 \times 2 + 0.3 \times 5 + 0.1 \times 10}{0.4 \times 1 + 0.15 \times 2 + 0.05 \times 2 + 0.3 \times 5 + 0.1 \times \frac{1}{5}} =$$

$$= \frac{3.03}{2.32} \approx 1.3$$

$ZD < 2$

$$\frac{0.4 \times \frac{1}{4} + 0.15 \times 2 + 0.05 \times 2 + 0.3 \times 5 + 0.1 \times 10}{0.4 \times 1 + 0.15 \times 2 + 0.05 \times 2 + 0.3 \times 5 + 0.1 \times \frac{10}{6}} =$$

$$= \frac{3}{2.47} \approx 1.2$$

1

$$\textcircled{2D = 3}$$

$$\frac{0.4 \times \frac{1}{5} + 0.15 \times 2 + 0.05 \times 2 + 0.3 \times 5 + 0.1 \times 10}{0.4 \times 1 + 0.15 \times 2 + 0.05 \times 2 + 0.3 \times 5 + 0.1 \times \frac{10}{7}} =$$

$$= \frac{2.98}{2.44} \approx 1.2$$