

3.

$$W=1, r=2$$

(A) $A: q = \min \{ L/2, K/4 \}$

$$q = L/2 = K/4$$

$$L = 2q, K = 4q$$

$$LTC = 1 \cdot 2q + 2 \cdot 4q$$

$$LTC = 2q + 8q$$

$$\Rightarrow LTC = 10q$$

B $q = \min \{ L/4, K/2 \}$

$$q = L/4 = K/2$$

$$L = 4q, K = 2q$$

$$LTC = 1 \cdot 4q + 2 \cdot 2q$$

$$LTC = 4q + 4q$$

$$\Rightarrow LTC = 8q$$

(B)

(C)

(D)

4

(B)

(A)