已知偉力公司的生產函數為  $q = 10L^{0.5}K^{0.5}$ ,且 w=r=10:

- A. C=wL+rKC=10L+10K
- B.  $MRTS = \frac{MP_L}{MP_K} = \frac{K}{L}$
- C. 會;L上升,K下降時,MRTS下降,或L下降,K上升,MRTS上升,等產量 線凸向原點

D. 
$$\begin{cases} \frac{K}{L} = \frac{10}{10} \\ q = 10L^{0.5}K^{0.5} \end{cases} \xrightarrow{MP_L \over w} = \frac{MP_K}{r} \quad (\text{At 10} \text{ W} \text{ H})$$
$$q = 10L^{0.5}K^{0.5} (\text{Rt N} \text{ W} \text{ H})$$

$$\frac{5L^{-0.5}K^{0.5}}{10} = \frac{5L^{0.5}K^{-0.5}}{10}$$

$$\frac{K^{0.5}}{2L^{0.5}} = \frac{L^{0.5}}{2K^{0.5}}$$

$$q = 10L^{0.5}L^{0.5} = 10L$$

$$L = 0.1q \rightarrow K = 0.1q$$

E. LTC = 
$$10 \times 0.1q + 10 \times 0.1q = 2q$$

$$LAC = \frac{2q}{q} = 2$$

$$LMC = \frac{dLTC}{da} = 2$$

F. 
$$LTC(10) = 2 \times 10 = 20$$