LONG-RUN COSTS AND Economies of Scale

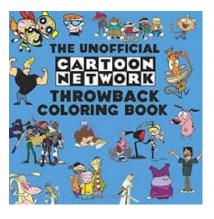
10.56- Demonstrate an understanding of long-run costs in the context of economies of scale.

<u>KICKOFF:</u>

- ✤ Go to Google Classroom and complete the assignment "KO-12/11"
 ➤ Quiz Prep
- Roll Call: Nickelodeon or Cartoon Network?







ANNOUNCEMENTS:

- ✤ 12/13- Have through Module 57 read
 - ➤ Last module that needs to be read by the test (52 57)
- ✤ 12/19- Unit 4 Test
- Knight Time this week and next

<u>CONCEPT CHECK:</u>

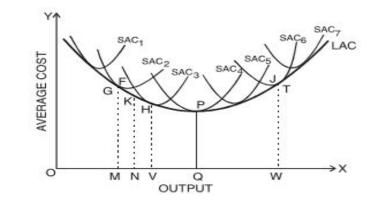
- ✤ 15 Questions
- ✤ ABSOLUTLEY NO TALKING EVEN WHEN YOU'RE DONE
- When you are done, Go to Google Classroom and complete the "Economies of Scale" edPuzzle
- ✤ 30 minutes to complete both
 - ➤ Once you have completed both, get caught up or ahead on the reading in the textbook (Modules 52 - 57)

LONG-RUN COSTS AND Economies of Scale

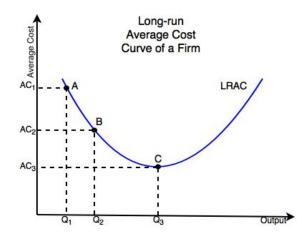
10.56- Demonstrate an understanding of long-run costs in the context of economies of scale.

LONG-RUN V. SHORT-RUN

- <u>Short run (SR)</u> at least one input is fixed
- Long run (LR)- all inputs are variable
- <u>LRATC-</u> lowest cost per unit at each level of output, assuming all factors are variable

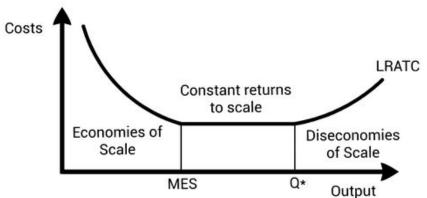






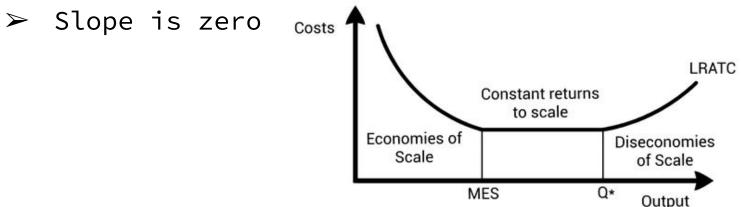
<u>ECONOMIES OF SCALE V. CONSTANT RETURNS V. DISECONOMIES</u>

- ✤ Economies of Scale- increasing returns to scale
 - Increase in inputs causes a <u>larger increase in</u> <u>output</u> (doubling inputs causes larger than double increase in outputs)
 - > LRATC decreases as output increases
 - Curve is downward sloping



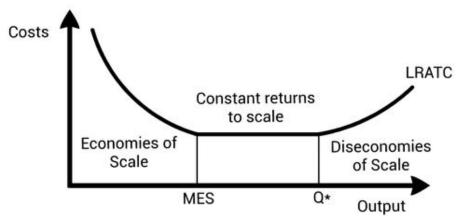
<u>ECONOMIES OF SCALE V. CONSTANT RETURNS V. DISECONOMIES</u>

- Constant Returns to Scale- an increase in input causes an equal increase in output
 - Increase of input by 20% causes an 20% increase in output
 - > LRATC is is constant as output increases



<u>ECONOMIES OF SCALE V. CONSTANT RETURNS V. DISECONOMIES</u>

- ✤ <u>Diseconomies of Scale-</u> decreasing returns to scale
 - Increase in inputs causes as lesser increase in outputs (increasing inputs by 50% causes a 25% increase in output)
 - > LRATC increases as output increases
 - > LRATC curve is upward sloping



<u>SUNK COST</u>

- Cost that has already been incurred and therefore should not play into the decision making process
 - To make good decisions you should only look at future benefits and future costs

SUNK COST EXAMPLE:

- You project that it will cost you \$150,000 to begin and run your business, and it'll earn you \$200,000 in revenue.
- However, after spending that \$150,000 you realize it will cost you an additional \$70,000 to start and operate the business.
- Should you continue spending money to start your business?
- ♦ Yes → If you continue you will lose \$20,000 as opposed to \$150,000

FREE RESPONSE REVIEW QUESTION

Using all the information you've learned the past few classes, complete this FRQ with the person next to you.

<u>CLOSURE</u>

- Go to Google Classroom and complete the assignment "12/11- Closure"
 - > Check for understanding of today's notes
 - Multiple Choice, independent, shouldn't take long