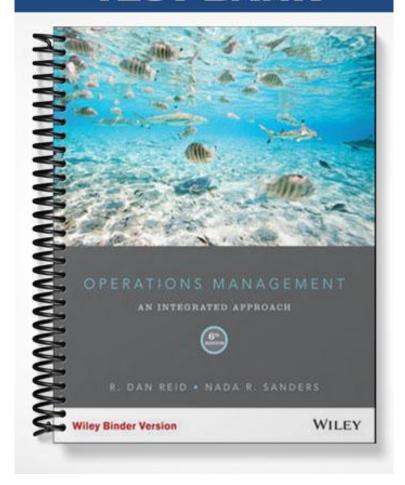
# TEST BANK



File: ch02, Chapter 2: Operations Strategy and Competitiveness

# **Multiple Choice**

- 1. What are the two key components of the operations strategy of Federal Express?
- a) they own their own fleet of tractor trailers, and they use a sophisticated bar code technology
- b) they own their own fleet of tractor trailers, and they have a large warehouse in every state
- c) they own their own fleet of airplanes, and they have a large warehouse in every state
- d) they use a sophisticated bar code technology, and they have a large warehouse in every state
- e) they own their own fleet of airplanes, and they use a sophisticated bar code technology

Ans: e

Section Ref: The Role of Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 1: Explain the role of operations strategy in the organization.

AACSB: Analytic

- 2. Operational efficiency is:
- a) driving the business strategy
- b) ensuring the right tasks are performed
- c) decreasing the firm's input requirements
- d) increasing the firm's output
- e) performing operations tasks well

Ans: e

Section Ref: The Role of Operations Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 1: Explain the role of operations strategy in the organization.

AACSB: Analytic

- 3. During the 1970s and 1980s, firms from which country provided the **most** serious competitive threat to U.S. companies?
- a) Germany
- b) Canada
- c) Mexico
- d) Japan
- e) United Kingdom

Ans: d

Section Ref: The Role of Operations Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 1: Explain the role of operations strategy in the organization.

AACSB: Analytic

- 4. The process of monitoring the external environment is called what?
- a) environmental examination
- b) environmental inspection
- c) environmental scrutiny
- d) environmental perusal
- e) environmental scanning

Ans: e

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Analytic

- 5. Which of the following would **not** be considered a core competency that a company might have?
- a) a highly trained workforce
- b) an inefficient distribution system
- c) skills in attracting and raising capital
- d) use of information technology
- e) quality control techniques

Ans: b

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Analytic

- 6. .Environmental scanning would **not** provide information on:
- a) sources of highly trained workers
- b) the firm's internal inefficient distribution system
- c) opportunities and threats
- d) changes in information technology
- e) changes in global competition

Ans: b

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Analytic

- 7. Which of the following is **not** typically considered to be a core competency?
- a) workforce
- b) mission
- c) market understanding
- d) technology
- e) facilities

Ans: b

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Analytic

- 8. What term describes the process of obtaining goods or services from an outside provider?
- a) outproviding
- b) transferization
- c) outsourcing
- d) subsourcing
- e) supersourcing

Ans: c

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Analytic

- 9. Once a business strategy has been developed:
- a) service prices are established
- b) competition must be identified
- c) an operations strategy must be formulated
- d) contracting with external sources must begin
- e) insourcing will be conducted

Ans: c

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

- 10. Which of the following is **not** considered one of the four broad categories of competitive priorities?
- a) technology
- b) cost
- c) quality
- d) flexibility
- e) time

Ans: a

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

- 11. Which of the following competitive priorities typically requires the use of more general-purpose equipment?
- a) technology
- b) cost
- c) quality
- d) flexibility
- e) time

Ans: d

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

- 12. Highly-skilled hourly workers would be **most** needed by companies employing which of the following competitive priorities?
- a) location
- b) cost
- c) flexibility
- d) development speed
- e) time

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

- 13. How does Federal Express maintain its ability to compete on time during peak demand periods?
- a) it subcontracts overload to other firms
- b) it purchases more planes
- c) overtime
- d) it uses a very flexible part-time workforce
- e) it purchases more vans

Ans: d

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

- 14. When making competitive priority decisions the firm:
- a) must select the correct supply chain
- b) must ensure the PWP is correctly established
- c) must focus on the one competitive priority at the exclusion of all others
- d) must make trade-off decisions
- e) must isolate the competing internal departments

Ans: d

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

- 15. Empire West displays what by specializing in making a wide variety of products?
- a) outsourcing
- b) SCM
- c) quality
- d) flexibility
- e) efficiency

Ans: d

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

- 16. Order winners and qualifiers:
- a) are consistent between manufacturing and service organizations
- b) only matter when responding to formal competitive bid requests
- c) remain constant over time
- d) change over time
- e) only apply to quasi-manufacturing firms

Ans: d

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

- 17. Decisions regarding which of the following are **not** part of the production process infrastructure?
- a) organization of workers
- b) facilities
- c) worker pay
- d) quality control measures
- e) management policies

Ans: b

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 3: Describe how an operations strategy is developed.

- 18. Decisions regarding which of the following are **not** part of the production process structure?
- a) management policies
- b) facilities
- c) robots
- d) flow of goods and services through the facility
- e) flexible manufacturing system (FMS) machines

Ans: a

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

- 19. What are the three primary types of technology?
- a) product technology, process technology, and information technology
- b) product technology, process technology, and environmental technology
- c) product technology, process technology, and safety technology
- d) information technology, environmental technology, and safety technology
- e) environmental technology, information technology, and process technology

Ans: a

Section Ref: Strategic Role of Technology

Level: Easy

Bloom's: Knowledge

Learning Objective 4: Explain the strategic role of technology.

AACSB: Technology

- 20. Teflon is an example of what?
- a) process technology
- b) information technology
- c) environmental technology
- d) safety technology
- e) product technology

Ans: e

Section Ref: Strategic Role of Technology

Level: Easy

Bloom's: Comprehension

Learning Objective 4: Explain the strategic role of technology.

AACSB: Technology

- 21. Technology should be acquired because:
- a) the new technology is fun
- b) the new technology keeps the employees happy
- c) the new technology doesn't cost very much
- d) the new technology always improves productivity
- e) the new technology supports the company's chosen competitive priorities

Ans: e

Section Ref: Strategic Role of Technology

Level: Easy

Bloom's: Comprehension

Learning Objective 4: Explain the strategic role of technology.

AACSB: Technology

- 22. Computer-aided manufacturing is an example of what?
- a) process technology
- b) information technology
- c) environmental technology
- d) safety technology
- e) product technology

Ans: a

Section Ref: Strategic Role of Technology

Level: Easy

Bloom's: Comprehension

Learning Objective 4: Explain the strategic role of technology.

AACSB: Technology

- 23. Which type of technology has had the greatest impact on business?
- a) process technology
- b) information technology
- c) environmental technology
- d) safety technology
- e) product technology

Ans: b

Section Ref: Strategic Role of Technology

Level: Medium Bloom's: Analysis

Learning Objective 4: Explain the strategic role of technology.

AACSB: Technology

- 24. When does productivity increase?
- a) inputs increase while outputs remain the same
- b) inputs decrease while outputs remain the same
- c) outputs decrease while inputs remain the same
- d) inputs and outputs increase proportionally
- e) none of the above

Ans: b

Section Ref: Productivity

Level: Medium Bloom's: Analysis

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Analytic

- 25. Which of the following is a valid type of "productivity measure"?
- a) multi-output productivity measure
- b) partial productivity measure
- c) multi-part productivity measure
- d) multi-component productivity measure
- e) imperfect productivity measure

Ans: b

Section Ref: Productivity

Level: Easy

Bloom's: Knowledge

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Analytic

- 26. Consider a pizza parlor. Which of the following would **not** be a valid productivity measure?
- a) pizzas produced / number of workers used
- b) pizzas produced / number of ovens
- c) pizzas produced / cost of workers and ingredients
- d) pizzas produced / cost of all inputs used
- e) labor hours / pizzas produced

Ans: e

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

- 27. If inputs increase by 30% and outputs decrease by 15%, what is the percentage change in productivity?
- a) 100% decrease
- b) 11.54% increase
- c) 34.62% decrease
- d) 15% increase
- e) 15% decrease

Solution: P = O / I

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 28. If inputs increase by 6% and outputs increase by 24%, what is the percentage productivity increase?
- a) 400.00%
- b) 16.98%
- c) 0.25%
- d) 4.00%
- e) 18.00%

Ans: b

Solution: P = O / I 1.24 / 1.06 = 1.1698 Move the decimal over two to get your percentage

16.98%

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 29. An airline has determined that its baggage handlers handle 12,000 bags when 3 baggage handlers are on shift. What is the baggage handler productivity?
- a) 4,000 bags/shift
- b) 4,000 bags/handler
- c) 14,000 bags/shift
- d) 12,000 bags/shift
- e) 2,000 bags/handler

Ans: b

Solution: P = O / I 12000 / 3 = 4000 bags/handler

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

- 30. If inputs increase by 10% and outputs increase by 4%, what is the percentage productivity increase?
- a) 5.45%
- b) 250.00%
- c) 5.45%
- d) 5.77%
- e) 5.77%

Solution: P = O / I 1.04 / 1.10 = .94

Since inputs were higher than outputs, this represents a loss or negative; Now, subtract 1.00 - .94 = .06

.06 / 1.10 = -5.45

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 31. If inputs increase by 10% and outputs increase by 5%, what is the percentage change in productivity?
- a) 4.545% decrease
- b) 4.545% increase
- c) 4.762% increase
- d) 4.762% decrease
- e) 50.000% increase

Ans: a

Solution: P = O / I 1.05 / 1.10 = .95 Since inputs were higher than outputs, this

represents a loss or negative; Now, subtract 1.00 - .95 = .05.05 / 1.10 = decrease 4.545%

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

- 32. If Joe's Diner serves 150 meals in one day using 3 kitchen staff, what is the kitchen staff daily productivity?
- a) 40 meals/staff
- b) 45 meals/staff
- c) 50 meals/staff
- d) 55 meals/staff
- e) 60 meals/staff

Solution: 150 / 3 = 50 meals per staff

Section Ref: Productivity

Level: Medium Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 33. If inputs increase by 30% and outputs increase by 15%, what is the percentage change in productivity?
- a) 50.00% decrease
- b) 88.46% increase
- c) 88.46% decrease
- d) 11.54% increase
- e) 11.54% decrease

Ans: e

Solution: 1.15 / 1.30 = .8846 Since inputs were higher than outputs; this represents a loss or

negative

Now, subtract 1.00 – . 8846 = .1154 decrease 11.54%

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 34. Suppose that on Monday the cost of inputs sums to \$1000, and the value of outputs sums to \$4000. For which of the following values on Tuesday would productivity increase?
- a) inputs = \$1100, outputs = \$4000
- b) inputs = \$1100, outputs = \$4200
- c) inputs = \$850, outputs = \$3600
- d) inputs = \$1000, outputs = \$3900
- e) inputs = \$2000, outputs = \$8000

Ans: c

Solution: Calculate the P= O/I for each; c is the only one higher than Monday.

3600 / 850 = 4.23

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

- 35. Suppose that a plant has a daily productivity of 200 parts per employee? What can we conclude?
- a) the daily productivity is excellent
- b) the plant can hire more workers and still earn profits
- c) the plant is not earning profits
- d) the plant must be highly automated
- e) nothing

Ans: e

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 36. Suppose that a plant has a daily productivity of 0.85 parts per employee? What can we conclude?
- a) the plant must be very labor-intensive
- b) the plant is not earning profits
- c) the plant must be highly automated
- d) the plant should lay off workers
- e) nothing

Ans: e

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 37. Suppose that a plant has a total productivity measure of 0.85. What can we conclude?
- a) the plant is not earning profits
- b) nothing
- c) the plant should lay off workers
- d) the plant is highly automated
- e) the daily productivity is excellent

Ans: a

Section Ref: Productivity

Level: Medium Bloom's: Analysis

Learning Objective 5: Define productivity and identify productivity measures.

38. Suppose that last month the cost of inputs summed to \$100,000, and the value of outputs summed to \$800,000. For which of the following values this month would productivity increase?

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a) inputs = $110,000, outputs = $800,000
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- b) inputs = \$50,000, outputs = \$400,000
- c) inputs = \$200,000, outputs = \$1,600,000
- d) inputs = \$100,000, outputs = \$820,000
- e) inputs = \$300,000, outputs = \$1,600,000

Ans: d

Solution: Calculate the P=O/I for each; d is the only one higher than last month. 820,000 /

100,000 = 8

Section Ref: Productivity

Level: Medium Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 39. Suppose that in week 1 a company produced 1000 units using 60 labor hours. For which of the following values in week 2 would labor productivity decrease?
- a) units = 2000, hours = 120
- b) units = 1500, hours = 95
- c) units = 1000, hours = 58
- d) units = 500, hours = 30
- e) units = 2000, hours = 100

Ans: b

Solution: Calculate the P= O/I for each; b has the lowest productivity.

1500 / 95 = 15.79

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

- 40. Suppose that on Wednesday the cost of inputs summed to \$4000, and the value of outputs summed to \$10,000. For which of the following values on Thursday will productivity stay the same?
- a) inputs = \$2000, outputs = \$5000
- b) inputs = \$5000, outputs = \$10,000

c) inputs = \$4000, outputs = \$8000 d) inputs = \$10,000, outputs = \$4000 e) inputs = \$12,000, outputs = \$40,000

Ans: a

Solution: Calculate the P= O/I for each;

5000 / 2000 = 2.5

a is the only one equal to Wednesday's.

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 41. Vericol, Inc. manufactures drugs using workers and automated machines. The firm has decided to replace two workers with a new machine, while the output per day is not expected to change. Which of the following cannot be true?
- a) labor productivity will increase
- b) machine productivity will decrease
- c) labor productivity will decrease
- d) multifactor productivity will increase
- e) multifactor productivity will decrease

Ans: c

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 42. A manager has just replaced three workers with a machine that is cheaper to operate than the cost of the three replaced workers. Output is expected to remain the same. Which of the following is true?
- a) labor productivity will decrease
- b) machine productivity will increase
- c) multifactor productivity will decrease
- d) multifactor productivity will increase
- e) the value of output will decrease

Ans: d

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

## AACSB: Reflective Thinking

- 43. Suppose that in January a company produced 5000 units using 1000 labor hours. For which of the following values in February would labor productivity decrease?
- a) units = 5000, hours = 900
- b) units = 10,000, hours = 1500
- c) units = 10,000, hours = 2000
- d) units = 2500, hours = 500
- e) units = 5000, hours = 1100

Ans: e

Solution: Calculate the P= O/I for each; e is the only one less than January. 5000 / 1100 = 4.54

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 44. Suppose that in year 1 a company produced \$100 Million worth of outputs while inputs totaled \$50 Million. For which of the following values in year 2 would productivity decrease?
- a) outputs = \$90 Million, inputs = \$50 Million
- b) outputs = \$400 Million, inputs = \$200 Million
- c) outputs = \$250 Million, inputs = \$100 Million
- d) outputs = \$50 Million, inputs = \$25 Million
- e) outputs = \$60 Million, inputs = \$25 Million

Ans: a

Solution: Calculate the P= O/I for each;

90 / 50 = 1.8

a is the only one less than Year 2.

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

- 45. If the telecommunication company sold \$10,000,000 of internet service using \$50,000 of labor, \$25,000 of leased bandwidth, \$45,000 service fees, and \$80,000 or replacement parts, what is the telecommunication multifactor productivity?
- a) 35
- b) 40
- c) 45

d) 50

e) 55

Ans: d

Solution: 10,000,000 / 50k + 25k + 45k + 80k = 10,000,000 / 200k = 50

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 46. Suppose that on Thursday a company produced 80 units using 160 labor hours. For which of the following values on Friday would daily labor productivity increase?
- a) units = 70, hours = 160
- b) units = 80, hours = 180
- c) units = 240, hours = 500
- d) units = 160, hours = 300
- e) units = 40, hours = 100

Ans: d

Solution: Calculate the P= O/I for each; d is the only one more than Thursday. 160 / 300 =

.5333

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 47. A firm produces 100 units using 800 labor hours. What is its labor productivity?
- a) 0.125 units/hour
- b) 8 units/hour
- c) 100 units/hour
- d) 800 units/hour
- e) -0.125 units/hour

Ans: a

Solution: 100 / 800 = .125 units / hr

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

- 48 A firm produces 2000 products using 10 workers on an eight-hour shift. What is the labor productivity per worker?
- a) 200 units/hour
- b) 25 units/hour
- c) 250 units/hour
- d) 20 units/hour
- e) 0.04 units/hour

Ans: b

Solution: 2000 / 10 = 200

= 200/8 = 25 units/hr

Section Ref: Productivity

Level: Medium Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 49. A machine shop produces metal frames on two different machines. The average daily production on machine 1 is 300 frames, and the average daily production on machine 2 is 180 frames. What is the daily machine productivity?
- a) 480 frames/machine
- b) 330 frames/machine
- c) 240 frames/machine
- d) 160 frames/machine
- e) 300 frames/machine

Ans: c

Solution: 300 + 180 = 480 480 / 2 = 240 frames/machines

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

- 50. A machine shop produces metal brackets on two different machines. Machine 1 can produce a bracket every 10 minutes. Machine 2 can produce a bracket every 4 minutes. What is the average productivity per machine?
- a) 4.3 brackets/hour
- b) 8.6 brackets/hour
- c) 10.5 brackets/hour
- d) 21.0 brackets/hour
- e) 7.0 brackets/hour

Ans: c Solution:

Machine 1 > 6 [6x10=1 hr] Machine 2 > 15[4x15=1 hr]

6 + 15 = 21= 21 / 2

= 10.5 brackets/hr

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 51. A firm produces handbags using three workers. On Tuesday, Jane completed 60 bags in 6 hours, Ron completed 50 bags in 7 hours, and Mary completed 80 bags in 5 hours. What was the overall productivity of the firm?
- a) 7.92 bags/hour
- b) 11.05 bags/hour
- c) 10.00 bags/hour
- d) 10.56 bags/hour
- e) 61.67 bags/hour

Ans: d

Solution:

Jane60 bags6 hrsRon50 bags7 hrsMary80 bags5 hrsTotal - 190 bags18 hrs

190 / 18 = 10.56 bags/hr Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 52. Suppose that output is worth \$400, and labor and materials costs are \$200 and \$100, respectively. What is the materials productivity?
- a) 2.00
- b) 1.33
- c) 0.25
- d) 0.75
- e) 4.00

Ans: e

Solution: 400 / 100 = 4.00Section Ref: Productivity

Level: Medium Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 53. A firm produces 500 units per day using five workers on a five-hour shift. On average, 15% of the units produced are defective and must be scrapped. What is the labor productivity for non-defective units?
- a) 17 units/hour
- b) 3 units/hour
- c) 20 units/hour
- d) 85 units/hour
- e) 15 units/hour

Ans: a Solution:

500 per day - 15% or 75 = 425 per day

425 / 5 workers = 85 / 5 hr = 17 units / hr

Section Ref: Productivity

Level: Medium Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 54. Suppose that weekly output is worth \$1000, and labor and materials costs are \$300 and \$200, respectively. What is the multifactor productivity ratio?
- a) 1000
- b) 8
- c) 2
- d) 3
- e) 0.5

Ans: c

Solution: 1000 / 300 + 200 = 1000 / 500 = 2

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

55. Each day a firm produces 50 products worth \$40 each. Raw materials cost per unit are \$12. The firm uses 4 workers on an eight-hour shift earning \$10 per hour each. What is the multifactor productivity ratio?

a) 1.82

b) 0.77

c) 3.16

d) 0.12

e) 2.17

Ans: e Solution:

 $50 \times $40 = 2000$ 

600 [12x50] + 320 = 920

2000 / 920 = 2.17

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

56. A bakery bakes bread in two different ovens. Oven 1 can bake a loaf every 30 minutes.

Oven 2 can bake a loaf every 15 minutes. What is the average productivity per oven?

a) 6.00 loaves/hour

b) 3.00 loaves/hour

c) 2.67 loaves/hour

d) 1.33 loaves/hour

e) 0.38 loaves/hour

Ans: b Solution:

Oven 1 can bake 2 per hour

Oven 2 can bake 4 per hour

Total 6 loaves per hr / 2 ovens = 3 loaves per hour

Section Ref: Productivity

Level: Medium Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

57. Johnny employs five painters. He collected the following data from last week.

Painter	Hours	Walls
		Completed
Julius	40	60
Margaret	32	68

Dave	50	78	
Suzy	36	70	
Fawn	44	74	

Which painter was least productive last week?

- a) Julius
- b) Margaret
- c) Dave
- d) Suzy
- e) Fawn

Ans: a

Solution: Calculate by dividing walls completed by the hours; a is the lowest and **least** productive

Painter	Hours	Walls Completed	Walls per Hour
Julius	40	60	1.5
Margaret	32	68	2.125
Dave	50	78	1.56
Suzy	36	70	1.94
Fawn	44	74	1.68

Section Ref: Productivity

Level: Medium Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

58. A bakery uses five ovens to bake muffins. Yesterday's data are provided below.

Oven	Hours	Muffins
		Baked
Oven 1	5	600
Oven 2	10	1500
Oven 3	8	1280
Oven 4	8	800
Oven 5	6	780

Which oven was the **most** productive?

- a) Oven 1
- b) Oven 2
- c) Oven 3
- d) Oven 4
- e) Oven 5

Ans: c

Solution: Calculate by dividing muffins baked by the hours; c is the highest and most productive

Oven	Hours	Muffins	Muffins per
		Baked	Hour

Oven 1	5	600	120
Oven 2	10	1500	150
Oven 3	8	1280	160
Oven 4	8	800	100
Oven 5	6	780	130

Section Ref: Productivity

Level: Medium Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

59. The state government utilizes five workers to stamp license plates. Last month's data are provided below.

Worker	Days	Units
	Worked	Stamped
Pete	30	1440
Tommy	20	1600
Laura	24	2000
Julie	28	2100
Susan	29	1200

Which worker was the **least** productive?

- a) Pete
- b) Tommy
- c) Laura
- d) Julie
- e) Susan

Ans: e

Solution: Calculate by dividing units stamped by the days; e is the lowest and least productive

Worker	Days	Units	Units Stamped per
	Worked	Stamped	Day
Pete	30	1440	48
Tommy	20	1600	80
Laura	24	2000	83.33
Julie	28	2100	75
Susan	29	1200	41.38

Section Ref: Productivity

Level: Medium Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

60. A firm uses five plants to produce its products. Each final product has a value of \$100. The following table provides last week's output, labor hours used (at \$15 per hour), and materials cost per unit.

Plant	Output	Labor	Materials Cost per
		Hours	Unit
Plant 1	2000	400	\$20
Plant 2	5000	900	\$18
Plant 3	9000	2000	\$20
Plant 4	1000	150	\$30
Plant 5	2000	440	\$18

Which plant was **most** productive last week?

- a) Plant 1
- b) Plant 2
- c) Plant 3
- d) Plant 4
- e) Plant 5

Ans: b Solution:

Plant 1 = 2000/(400x15) + (20x2000) = .043 Plant 2 = 5000/(900x15) + (18x2000) = .048 Plant 3 = 9000/(2000x15) + (20x2000) = .042 Plant 4 = 1000/(150x15) + (30x2000) = .031 Plant 5 = 2000/(440x15) + (18x2000) = .047

Section Ref: Productivity

Level: Medium Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

61. A firm uses five plants to produce its products. Output value and total input cost for last week are provided below.

Plant	Output Value	<b>Total Cost</b>
Plant 1	\$20,000	\$25,000
Plant 2	\$50,000	\$60,000
Plant 3	\$40,000	\$42,000
Plant 4	\$80,000	\$99,000
Plant 5	\$25,000	\$29,000

Which plant was least productive last week?

- a) plant 1
- b) plant 2
- c) plant 3
- d) plant 4
- e) plant 5

Ans: a Solution:

Plant 1 = 20000/25000 = .800

Plant 2 = 50000/60000 = .833

Plant 3 = 40000/42000 = .952

Plant 4 = 80000/99000 = .808

Plant 5 = 25000/29000 = .862

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

62. Last week Jason painted 11 houses in 4 days. This week he painted 14 houses in 5 days.

What was his percent productivity increase?

- a) 1.82%
- b) 1.79%
- c) 27.27%
- d) 25.00%
- e) 5.00%

Ans: a

Solution:

11/4 = 2.75

14 / 5 = 2.8

2.8 / 2.75 = 1.01818 or 1.82% (remember to move the decimal over)

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 63. Last month a plant produced 10,000 units using 2000 labor hours. This month it produced 12,000 units using 3000 labor hours. What is the percent productivity decrease?
- a) 200%
- b) 100%
- c) 50%
- d) 25%
- e) 20%

Ans: e

Solution:

10000 / 2000 = 5

12000 / 3000 = 4

4/5 = .8 or 20%

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 64. On Tuesday George produced 100 units in 8 hours. On Wednesday he produced 120 units in 10 hours. What was his percent productivity change?
- a) -0.50%
- b) -4.17%
- c) 4.17%
- d) -4.00%
- e) 4.00%

Ans: d

Solution:

100 / 8 = 12.5

120 / 10 = 12

12 / 12.5 = .96 or -4%

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

**AACSB:** Reflective Thinking

- 65. Last month Stacy sold 10 houses while working 20 days. This month she sold the same number of houses in 22 days. What is her percent productivity change?
- a) 10.00%
- b) 9.09%
- c) 9.09%
- d) -10.00%
- e) 4.55%

Ans: b

Solution:

10 / 20 = .5

10/22 = .4545

.4545 / .5 = -.9090 or -9.09%

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

66. Yesterday, John produced 100 units in 8 hours. Today he produced the same amount in 6 hours. What is his percent productivity change?

- a) 33.33%
- b) 0.00%
- c) 25.55%
- d) -25.00%
- e) 4.67%

Ans: a Solution:

100 / 8 = 12.5100 / 6 = 16.666

16.666 / 12.5 = 1.3333 or 33.33%

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

67. A company used to produce 500 units every 2 days, but 10% of the units were defective. After installing a new process, defects have been eliminated while output has remained the same. What is the percent increase in productivity due to installing the new process?

- a) 10.00%
- b) 25.00%
- c) 11.11%
- d) 0.00%
- e) 5.56%

Ans: c

Solution:

10% of 500 = 450

450 / 2 = 225

500/2 = 250

250 / 225 = 1.1111 or 11.11%

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

68. A company used to produce 300 units every day, but 20% of the units were defective. After installing a new process, the defect rate has been reduced to 5%, while output has remained the same. What is the percent increase in productivity due to installing the new process?

- a) 15.79%
- b) 0.00%
- c) 15.00%
- d) 18.75%
- e) -75.00%

Ans: d

Solution:

300 - 20% = 240

300 - 5% = 285

285 / 240 = 1.1875 or 18.75%

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

- 69. Last month a plant produced 1200 units using 150 labor hours. This month it produced 1500 units using 300 labor hours. What is the percent productivity decrease?
- a) 37.50%
- b) 60.00%
- c) 100.00%
- d) 300.00%
- e) 200.00%

Ans: a

Solution:

1200 / 150 = 8

1500 / 300 = 5

5/8 = .625

100 - 62.5 = 37.50%

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

- 70. Which of the following has used the Internet to conduct a fashion show in order to boost sales?
- a) The Gap
- b) Eddie Bauer

- c) Fruit of the Loom
- d) Victoria's Secret
- e) Sears

Ans: d

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Technology

- 71. Which of the following is **not** described in the chapter as one of the major environmental trends that firms should monitor?
- a) marketplace trends
- b) global climate trends
- c) economic trends
- d) political trends
- e) social trends

Ans: b

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Analytic

72. Suppose that a plant manager is only evaluated based on the partial productivity measure: output/(number of employees). If she replaces 10% of the workforce with robots (one robot per replaced worker), and output remains the same, what will be the percent change in this measure of productivity?

Ans: 11.1% increase Section Ref: Productivity

Level: Medium Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

- 73. Productivity is essentially:
- a) something to fill out managers' reports
- b) measure of resource effectiveness
- c) a scorecard of how efficiently resources are used
- d) a balance scorecard metric

#### e) the current business fad

Ans: c

Section Ref: Productivity

Level: Easy

Bloom's: Comprehension

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Analytic

#### True/False

74. An operations strategy covers a relatively short time horizon, whereas a business strategy covers a relatively long time horizon.

Ans: False

Section Ref: The Role of Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 1: Explain the role of operations strategy in the organization.

AACSB: Analytic

75. To provide speed of delivery, Federal Express invested in a sophisticated bar code technology.

Ans: False

Section Ref: The Role of Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 1: Explain the role of operations strategy in the organization.

AACSB: Analytic

76. To provide dependability of delivery, Federal Express acquired its own fleet of airplanes.

Ans: False

Section Ref: The Role of Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 1: Explain the role of operations strategy in the organization.

AACSB: Analytic

77. Operations Strategy is developed before the business strategy so the company knows what it will be producing before establishing a long range business strategy.

Ans: False

Section Ref: The Role of Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 1: Explain the role of operations strategy in the organization.

AACSB: Analytic

78. Victoria's Secret has used the Internet to conduct a fashion show in order to boost sales.

Ans: True

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Technology

79. Market research represents a type of environmental scanning.

Ans: True

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Analytic

80. Companies that compete on cost generally also allow a lot of product customization.

Ans: False

Section Ref: Developing an Operations Strategy Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

81. Firms that focus on quality as their primary competitive priority usually implement either product design quality or process quality, but not both.

Ans: False

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

82. Federal Express subcontracts its work overload to other firms during peak demand periods.

Ans: False

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

83. As long as the firm always meets the order qualifier classification it will be always be competitive and win competitive bid opportunities

Ans: False

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

84. Companies that compete based on flexibility often cannot compete on cost.

Ans: True

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

85. Facilities decisions are part of the production process infrastructure.

Ans: False

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

86. Decisions regarding flow of goods and services through the facility are part of the production process structure.

Ans: True

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

87. Worker pay decisions are part of the production process structure.

Ans: False

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

88. Quality control approaches are part of the production process infrastructure.

Ans: True

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

89. Studies have shown that companies that invest in new technologies tend to improve their financial position over those that do not.

Ans: True

Section Ref: Strategic Role of Technology

Level: Easy

Bloom's: Comprehension

Learning Objective 4: Explain the strategic role of technology.

AACSB: Technology

90. Operations management is only concerned with information technology applications within the firm.

Ans: False

Section Ref: Strategic Role of Technology

Level: Easy

Bloom's: Comprehension

Learning Objective 4: Explain the strategic role of technology.

AACSB: Technology

91. Process technology is the technology that has grown the **most** rapidly and has had the greatest impact on business.

Ans: False

Section Ref: Strategic Role of Technology

Level: Easy

Bloom's: Comprehension

Learning Objective 4: Explain the strategic role of technology.

AACSB: Technology

92. A measure of how efficiently inputs are being converted into outputs is called utilization.

Ans: False

Section Ref: Productivity

Level: Easy

Bloom's: Knowledge

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Analytic

93. Productivity = input/output.

Ans: False

Section Ref: Productivity

Level: Easy

Bloom's: Knowledge

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Analytic

94. Output/(all inputs used) is called total productivity.

Ans: True

Section Ref: Productivity

Level: Easy

Bloom's: Knowledge

Learning Objective 5: Define productivity and identify productivity measures.

95. An operations strategy should **not** impact the firm's supply chain design.

Ans: False

Section Ref: Operations Strategy Within OM: How It All Fits Together

Level: Easy

Bloom's: Comprehension

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Analytic

96. Output/(labor + capital) is an example of a partial productivity measure.

Ans: False

Section Ref: Productivity

Level: Easy

Bloom's: Comprehension

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Analytic

97. Productivity gains in the service sector have been much lower than that of manufacturing.

Ans: True

Section Ref: Productivity

Level: Easy

Bloom's: Comprehension

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Analytic

98. A Marketing Strategy is defines marketing plans to support the business strategy.

Ans: True

Section Ref: The Role of Operations Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 1: Explain the role of operations strategy in the organization.

AACSB: Analytic

99. McDonald's and Pizzerias compete on the same "order winners".

Ans: False; McDonalds competes on consistency, Pizzerias compete on homemade taste.

Section Ref: Developing an Operations Strategy

Level: Medium

Bloom's: Application

Learning Objective 3: Describe how an operations strategy is developed.

## AACSB: Reflective Thinking

100. A nation's productivity is **not** directly related to its standard of living.

Ans: False

Section Ref: Productivity

Level: Easy

Bloom's: Comprehension

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Analytic

#### **Essay**

101. Describe the difference between operational effectiveness and strategy.

Ans: Operational effectiveness is the ability to perform operations more efficiently than competitors. Strategy, on the other hand, is a plan for competing in the marketplace.

Section Ref: The Role of Operations Strategy

Level: Medium Bloom's: Analysis

Learning Objective 1: Explain the role of operations strategy in the organization.

AACSB: Analytic

102. Define "environmental scanning."

Ans: Monitoring the external environment for changes and trends in the market, in the economic and political environment, and in society in order to determine business opportunities and threats.

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Analytic

103. A mission statement answers what three overriding questions?

Ans: (1) What business is the organization in?, (2) Who are the customers?, (3) How will the company's core

beliefs shape its business?

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Analytic

104. What are some general technological trends in the marketplace?

Ans: point-of-sale scanners, automation, computer-assisted processing, electronic purchasing,

electronic order tracking, and e-commerce

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Analytic

105. How have U.S. tobacco companies responded to public awareness of the dangers of smoking?

Ans: Many have changed their strategy to focus on customers overseas where smoking is still socially acceptable, or have diversified into other product lines.

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Analytic

106. Discuss how the operations strategy categories of structure and infrastructure determine the nature of the company's operations function.

Ans: Structure is the operations decisions related to the design of the production process while infrastructure is operations decisions related to the planning and control systems of the operations. Together they define how the firm will pursue its long range plan.

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

107. Suggest some core competencies that companies may have.

Ans: highly trained workforce, responsive in meeting customer needs, flexible in performing a variety of tasks, strong technical capability, creative in product design, flexible in producing a variety of products, technologically advanced, an efficient distribution system, skilled in

understanding customer wants and predicting market trends, skilled in attracting and raising capital, use of latest production technology, use of information technology, and quality control techniques.

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Analytic

108. What outsourcing activities does Total Logistics Control perform for Meijer?

Ans: all deliveries, route scheduling, and all activities involved in maintaining a fleet of trucks

Section Ref: Developing a Business Strategy

Level: Easy

Bloom's: Knowledge

Learning Objective 2: Explain how a business strategy is developed.

AACSB: Analytic

109. At the national level why is it important to measure productivity?

Ans: The economic success of a nation and the quality of life of its citizens are related to the competitiveness in the global marketplace. Understanding the nation's productivity helps to define how the nation is performing as a whole/

Section Ref: Productivity

Level: Easy

Bloom's: Comprehension

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Analytic

110. Describe how Southwest Airlines competes on cost.

Ans: Facilities are streamlined: only one type of aircraft is used, and flight routes are generally short. This serves to minimize costs of scheduling crew changes, maintenance, inventories of parts, and many administrative costs. Unnecessary costs are completely eliminated: there are no meals, printed boarding passes, or seat assignments.

Section Ref: Developing an Operations Strategy

Level: Easy

Bloom's: Comprehension

Learning Objective 3: Describe how an operations strategy is developed.

AACSB: Analytic

111. For what entities can productivity be measured?

Ans: individuals, departments, organizations, industries, or even countries

Section Ref: Productivity

Level: Easy

Bloom's: Comprehension

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Analytic

#### Fill-in-the-Blank

112. If a company's inputs for producing a certain product increase by 10% and the output increases by 25%, what is the percentage productivity increase for that product?

Ans: 13.6%

Section Ref: Productivity

Level: Medium Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

113. If a company's inputs for producing a certain product increase by 50% and the output increases by 90%, what is the percentage productivity increase for that product?

Ans: 26.7%

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

114. The school's cafeteria has three service lines (pizza, salads, and sandwiches). The pizza line has one server and serves 90 pizzas per hour. The salad line has two servers and they handle 140 customers in 70 minutes. The sandwich line has three servers and they supply 360 sandwiches in 90 minutes. Which service line has the highest hourly productivity?

Ans: Pizza line at 90 pizzas/server/hour

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

115. A new milling machine can process 2000 jobs in 8 hours. What is the productivity of the machine?

Ans: 250 jobs/hour Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

116. A firm produces 6000 products using 12 workers on a nine-hour shift. What is the labor productivity per worker?

Ans: 55.6 units/hour Section Ref: Productivity

Level: Medium Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

117. A machine shop produces hangers on two different machines. Machine 1 can produce a hanger every 15 minutes. Machine 2 can produce a hanger every 10 minutes. What is the average productivity per machine?

Ans: 5 units/hour

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

118. A firm produces shirts using three workers. On Wednesday, Madeline completed 110 shirts in 6 hours, Federico completed 90 shirts in 7 hours, and Susan completed 130 shirts in 9 hours. What was the overall productivity of the firm?

Ans: 15 units/hour

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

119. A firm produces 1500 units per day using four workers on a five-hour shift. On average, 12% of the units produced are defective and must be scrapped. What is the labor productivity for non-defective units?

Ans: 66 units/hour

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

**AACSB:** Reflective Thinking

120. Last week George moved 6 lawns in two days. This week he moved 8 lawns in three days. In which week was George more productive?

Ans: last week

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

121. During week one, on average, the aircraft cleaning staff was able to totally clean an airplane in 45 minutes using 3 cleaners. During week two the average time to clean an aircraft went to 40 minutes with one of the cleaning staff off sick. Week two productivity changed in which direction and by how much?

Ans: Week two productivity is 20 minutes/staff, productivity decreased

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

AACSB: Reflective Thinking

122. A company uses two plants to produce motorcycles. Plant A produces 200 per week using 20 workers and 4 machines. Plant B produces 250 per week using 10 workers and 10 machines. Which plant is more productive?

Ans: unknown—Plant A has a higher machine productivity but a lower labor productivity. The cost of labor and machines is needed.

Section Ref: Productivity

Level: Medium

Bloom's: Application

Learning Objective 5: Define productivity and identify productivity measures.

123. Firms measure productivity to learn how	they are.
Ans: competitive Section Ref: Productivity Level: Easy Bloom's: Comprehension Learning Objective 5: Define productivity and identify productivity measu AACSB: Analytic	ıres.
124. Rapid technological change includes the risk of	·
Ans: obsolescence. Section Ref: Strategic Role of Technology Level: Easy Bloom's: Comprehension Learning Objective 4: Explain the strategic role of technology. AACSB: Technology	
125. The operations function must place emphasis on those priorities that e Therefore, it needs to make between definitions.	
Ans: Business strategy, trade-offs Section Ref: Developing an Operations Strategy Level: Easy Bloom's: Comprehension Learning Objective 3: Describe how an operations strategy is developed. AACSB: Analytic	
126. Estimating productivity requires measurements of	and
Ans: results and effort; output and input, etc. Section Ref: Productivity Level: Easy Bloom's: Comprehension Learning Objective 5: Define productivity and identify productivity measu AACSB: Analytic	ıres.

127. Operations strategy is a long range plan for the design and use of resources in support of
Ans: the business strategy Section Ref: The Role of Operations Strategy Level: Easy Bloom's: Comprehension Learning Objective 1: Explain the role of operations strategy in the organization. AACSB: Analytic
128. Mass produced standard products were the main manufacturing concern until
Ans: the 1970s Section Ref: The Role of Operations Strategy Level: Easy Bloom's: Knowledge Learning Objective 1: Explain the role of operations strategy in the organization. AACSB: Analytic
129. Restaurants that offer pizza to go have different than those that do not.
Ans: missions Section Ref: The Role of Operations Strategy Level: Medium Bloom's: Application Learning Objective 1: Explain the role of operations strategy in the organization. AACSB: Reflective Thinking
130 is used to improve the process of creating goods and services.
Ans: Process technology Section Ref: Strategic Role of Technology Level: Easy Bloom's: Knowledge Learning Objective 4: Explain the strategic role of technology. AACSB: Technology
131. Environmental scanning helps organizations recognize
Ans: opportunities and threats.

Section Ref: Developing a Business	Strategy
Level: Easy	
Bloom's: Comprehension	
Learning Objective 2: Explain how a	business strategy is developed.
AACSB: Analytic	
132. Firms use	to concentrate on their
	to concentrate on their
·	
Ans: outsourcing, core competencies	
Section Ref: Developing a Business	
Level: Easy	Stategy
Bloom's: Comprehension	
Learning Objective 2: Explain how a	business strategy is developed.
AACSB: Analytic	ousmoss survey is developed.
1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
133. A business strategy is like an ex	plorer's
	•
Ans: compass	
Section Ref: Developing a Business	Strategy
Level: Easy	
Bloom's: Comprehension	
Learning Objective 2: Explain how a	business strategy is developed.
AACSB: Analytic	•
•	
134. Saying that an organization is q	ualified to be in its market means it has the right
·	
Ans: order qualifiers	
Section Ref: Developing an Operation	ons Strategy
Level: Easy	
Bloom's: Comprehension	
Learning Objective 3: Describe how	an operations strategy is developed.
AACSB: Analytic	
105	
	develops financial plans to support the business
strategy.	
Ang. Einange Stratege	
Ans: Finance Strategy	Charles
Section Ref: The Role of Operations	Strategy
Level: Easy	

Bloom's: Knowledge

Learning Objective 1: Explain the role of operations strategy in the organization.