

Economics: Canada in the Global Environment, 7e (Parkin)
Chapter 12 Perfect Competition

12.1 What Is Perfect Competition?

- 1) Perfect competition occurs in a market where there are many firms, each selling
- A) an identical product.
 - B) a similar product.
 - C) a unique product.
 - D) a capital-intensive product.
 - E) a competitive product.

Answer: A

Diff: 1

Topic: What is Perfect Competition?

- 2) Which one of the following does not occur in perfect competition?
- A) No single firm can exert a significant influence on the market price of the good.
 - B) There are many buyers.
 - C) There are significant restrictions on entry into the market.
 - D) Sellers and buyers are well informed about prices.
 - E) Established firms have no advantage over new ones.

Answer: C

Diff: 1

Topic: What is Perfect Competition?

- 3) A price-taking firm faces a
- A) perfectly inelastic demand.
 - B) downward-sloping marginal revenue curve.
 - C) downward-sloping supply curve.
 - D) perfectly elastic demand.
 - E) downward-sloping demand curve.

Answer: D

Diff: 1

Topic: What is Perfect Competition?

- 4) In a perfect competitive market, the market demand curve is illustrated by
- A) a downward-sloping curve.
 - B) a line that is vertical at the market output.
 - C) an upward-sloping curve.
 - D) a line that is horizontal at the market price.
 - E) a curve that is bowed towards the origin.

Answer: A

Diff: 1

Topic: What is Perfect Competition?

5) The slope of a perfectly competitive firm's demand curve is

- A) infinity.
- B) zero.
- C) 1.
- D) greater than 1.
- E) negative.

Answer: B

Diff: 2

Topic: What is Perfect Competition?

6) A price taker is a firm that

- A) must lower its price if it wants to sell more output.
- B) sets the market price.
- C) cannot influence the market price.
- D) is incurring an economic loss.
- E) can raise its price if it lowers output.

Answer: C

Diff: 1

Topic: What is Perfect Competition?

7) If a firm faces a perfectly elastic demand for its product, then

- A) it is not a price taker.
- B) it will want to lower its price to increase sales.
- C) it will want to raise its price to increase total revenue.
- D) its marginal revenue curve is horizontal at the market price.
- E) it will always make zero economic profit.

Answer: D

Diff: 2

Topic: What is Perfect Competition?

Source: Study Guide

8) Complete the following sentence. Marginal revenue is

- A) the change in total quantity that results from a one-unit increase in the price of the good.
- B) the change in total revenue that results from a one-unit increase in the quantity sold.
- C) economic profit divided by the quantity sold.
- D) the change in economic profit that results from a one-unit increase in the quantity sold.
- E) total revenue minus total cost.

Answer: B

Diff: 1

Topic: What is Perfect Competition?

Use the figure below to answer the following questions.



Figure 12.1.1

9) Refer to Figure 12.1.1. Curve A represents the firm's

- A) total fixed cost curve.
- B) average fixed cost curve.
- C) average variable cost curve.
- D) total revenue curve.
- E) marginal revenue curve.

Answer: D

Diff: 2

Topic: What is Perfect Competition?

10) Refer to Figure 12.1.1. A is a straight line because the firm

- A) is a price taker.
- B) faces constant returns to scale.
- C) wants to maximize profits.
- D) has perfect information.
- E) has constant marginal cost.

Answer: A

Diff: 2

Topic: What is Perfect Competition?

Use the table below to answer the following questions.

Table 12.1.1

Quantity (units)	Price (dollars)
5	15
6	15
7	15

11) Refer to Table 12.1.1 which gives the demand schedule for a perfectly competitive firm. If the firm sells 5 units of output, total revenue is

- A) \$15.
- B) \$30.
- C) \$75.
- D) \$90.
- E) \$105.

Answer: C

Diff: 1

Topic: What is Perfect Competition?

12) Refer to Table 12.1.1 which gives the demand schedule for a perfectly competitive firm. If the firm sells 6 units of output, marginal revenue is

- A) \$15.
- B) \$30.
- C) \$75.
- D) \$90.
- E) \$105.

Answer: A

Diff: 2

Topic: What is Perfect Competition?

13) Refer to Table 12.1.1 which gives the demand schedule for a perfectly competitive firm. If the quantity sold by the firm rises from 5 to 6, marginal revenue is

- A) \$15.
- B) \$30.
- C) \$75.
- D) \$90.
- E) \$105.

Answer: A

Diff: 2

Topic: What is Perfect Competition?

14) For perfect competition to arise, it is necessary that market demand be

- A) inelastic.
- B) elastic.
- C) perfectly elastic.
- D) large relative to the minimum efficient scale of a single firm.
- E) small relative to the minimum efficient scale of a single firm.

Answer: D

Diff: 2

Topic: What is Perfect Competition?

Source: Study Guide

15) Assume that the leather market is a perfectly competitive market. The market demand curve for leather is _____ and each individual leather producer's demand curve is _____.

- A) vertical; downward sloping
- B) downward sloping; horizontal
- C) downward sloping; vertical
- D) horizontal; horizontal
- E) horizontal; downward sloping

Answer: B

Diff: 2

Topic: What is Perfect Competition?

16) An example of a perfectly competitive industry is the

- A) airline industry.
- B) beer industry.
- C) running shoe industry.
- D) fast food industry.
- E) wheat industry.

Answer: E

Diff: 2

Topic: What is Perfect Competition?

17) Economic profit equals

- A) total fixed cost plus total variable cost.
- B) total revenue minus marginal cost.
- C) marginal revenue minus marginal cost.
- D) total revenue minus total cost.
- E) total revenue minus total variable cost.

Answer: D

Diff: 1

Topic: What is Perfect Competition?

18) Lin's fortune cookies are identical to the fortune cookies made by dozens of other firms, and there is free entry in the fortune cookie market. Buyers and sellers are well informed about prices. Lin's fortune cookies operates in a _____ market.

- A) challenging
- B) monopolistic
- C) perfectly competitive
- D) noncompetitive
- E) perfectly competent

Answer: C

Topic: What is Perfect Competition?

Source: MyEconLab

19) Lin's fortune cookies are identical to the fortune cookies made by dozens of other firms, and there is free entry in the fortune cookie market. Buyers and sellers are well informed about prices. The price of a fortune cookie is determined by _____. The marginal revenue of a fortune cookie equals _____.

- A) market demand and market supply; price
- B) the ingredients that Lin's uses to produce his fortune cookies; average total cost
- C) the number of cookies that Lin's produces; average variable cost
- D) the freshness of the fortune cookies; average fixed cost
- E) market demand and market supply; the price elasticity of demand

Answer: A

Topic: What is Perfect Competition?

Source: MyEconLab

12.2 The Firm's Output Decision

Use the table below to answer the following questions.

Table 12.2.1

Output (units)	Total Revenue (dollars)	Total Cost (dollars)
0	0	25
1	30	49
2	60	69
3	90	86
4	120	100
5	150	114
6	180	128
7	210	170

1) Refer to Table 12.2.1, which gives the total revenue schedule and total cost schedule of a perfectly competitive firm. The short-run equilibrium price of one unit of the good is

- A) \$3.
- B) \$10.
- C) \$15.
- D) \$25.
- E) \$30.

Answer: E

Diff: 3

Topic: The Firm's Output Decision

2) Refer to Table 12.2.1, which gives the total revenue schedule and total cost schedule of a perfectly competitive firm. The marginal revenue received from the sale of the 4th unit of output is

- A) \$3.
- B) \$15.
- C) \$10.
- D) \$120.
- E) \$30.

Answer: E

Diff: 2

Topic: The Firm's Output Decision

3) Refer to Table 12.2.1, which gives the total revenue schedule and total cost schedule of a perfectly competitive firm. The marginal cost of increasing production from 4 units to 5 units is

- A) \$14.
- B) \$128.
- C) \$100.
- D) \$25.
- E) \$30.

Answer: A

Diff: 2

Topic: The Firm's Output Decision

4) Refer to Table 12.2.1, which gives the total revenue schedule and total cost schedule of a perfectly competitive firm. If the firm produces 2 units of output, it

- A) makes an economic profit of \$9.
- B) makes an economic profit of \$60.
- C) incurs an economic loss of \$9.
- D) incurs an economic loss of \$60.
- E) incurs an economic loss of \$69.

Answer: C

Diff: 2

Topic: The Firm's Output Decision

5) Refer to Table 12.2.1, which gives the total revenue schedule and total cost schedule of a perfectly competitive firm. If the firm produces 3 units of output, it will

- A) make an economic profit of \$4.
- B) make an economic profit of \$90.
- C) incur an economic loss of \$4.
- D) break even.
- E) incur an economic loss of \$86.

Answer: A

Diff: 2

Topic: The Firm's Output Decision

6) Refer to Table 12.2.1, which gives the total revenue schedule and total cost schedule of a perfectly competitive firm. Economic profit is maximized when the firm produces _____ units of output.

- A) zero
- B) 7
- C) 3
- D) 6
- E) 5

Answer: D

Diff: 2

Topic: The Firm's Output Decision

- 7) A firm shuts down if price is
- A) above minimum average variable cost.
 - B) below minimum average variable cost.
 - C) above minimum average fixed cost.
 - D) less than marginal cost.
 - E) below average total cost.

Answer: B

Diff: 2

Topic: The Firm's Output Decision

Use the table below to answer the following questions.

Table 12.2.2

Output (pizzas per hour)	Total Cost (dollars per hour)
0	10
1	12
2	16
3	22
4	30
5	40
6	55

- 8) Refer to Table 12.2.2, which gives the total cost schedule for Chip's Pizza Palace, a perfectly competitive firm. If the price of a pizza is \$7, what is Chip's profit-maximizing output per hour?

- A) zero pizzas
- B) 1 pizza
- C) 2 pizzas
- D) 3 pizzas
- E) 4 pizzas

Answer: D

Diff: 3

Topic: The Firm's Output Decision

- 9) Refer to Table 12.2.2, which gives the total cost schedule for Chip's Pizza Palace, a perfectly competitive firm. If Chip shuts down in the short run, his total cost is

- A) \$0.
- B) \$10 an hour.
- C) \$12 an hour.
- D) \$22 an hour.
- E) \$40 an hour.

Answer: B

Diff: 2

Topic: The Firm's Output Decision

Use the table below to answer the following questions.

Table 12.2.3

Output (balloons per hour)	Total Cost (dollars per hour)
0	4.00
1	7.00
2	8.00
3	12.50
4	17.20
5	22.00
6	29.00

10) Refer to Table 12.2.3, which gives the total cost schedule for Brenda's Balloon Shop, a perfectly competitive firm. Brenda's total fixed cost is

- A) \$3 an hour.
- B) \$4 an hour.
- C) \$7 an hour.
- D) \$29 an hour.
- E) zero.

Answer: B

Diff: 2

Topic: The Firm's Output Decision

11) Refer to Table 12.2.3, which gives the total cost schedule for Brenda's Balloon Shop, a perfectly competitive firm. The marginal cost of increasing production from 4 balloons an hour to 5 balloons an hour is

- A) \$1.
- B) \$4.50.
- C) \$4.70.
- D) \$4.80.
- E) \$4.40.

Answer: D

Diff: 2

Topic: The Firm's Output Decision

12) Refer to Table 12.2.3, which gives the total cost schedule for Brenda's Balloon Shop, a perfectly competitive firm. The average fixed cost of producing the 4th balloon is

- A) \$4.30.
- B) \$4.80.
- C) \$4.70.
- D) \$4.50.
- E) \$1.00.

Answer: E

Diff: 3

Topic: The Firm's Output Decision

13) Refer to Table 12.2.3 which gives the total cost schedule for Brenda's Balloon Shop, a perfectly competitive firm. The average variable cost of producing the 1st balloon is

- A) \$1.00
- B) \$4.00
- C) \$2.00
- D) \$4.80.
- E) \$3.00

Answer: E

Diff: 2

Topic: The Firm's Output Decision

14) A firm will shut down temporarily when the price is so low that total revenue is insufficient to cover the

- A) total cost of production.
- B) total variable cost of production.
- C) total fixed cost of production.
- D) marginal cost of production.
- E) none of the above.

Answer: B

Diff: 1

Topic: The Firm's Output Decision

15) A firm that temporarily shuts down and produces no output incurs a loss equal to its

- A) total fixed cost.
- B) total variable cost.
- C) marginal cost.
- D) marginal revenue.
- E) average total cost.

Answer: A

Diff: 2

Topic: The Firm's Output Decision

16) Suppose a firm is trying to decide whether or not to temporarily shut down to minimize total loss. If price equals average variable cost, then

- A) total revenue equals total fixed cost, and the loss equals total variable cost.
- B) total revenue equals total variable cost, and the loss equals total fixed cost.
- C) total fixed cost is zero.
- D) total variable cost equals total fixed cost.
- E) total cost equals total variable cost.

Answer: B

Diff: 3

Topic: The Firm's Output Decision

17) The shutdown point occurs at the point of minimum

- A) marginal cost.
- B) average variable cost.
- C) average fixed cost.
- D) total cost.
- E) average total cost.

Answer: B

Diff: 1

Topic: The Firm's Output Decision

18) A firm maximizes profit by producing the output at which marginal cost equals

- A) marginal revenue.
- B) average total cost.
- C) average variable cost.
- D) average fixed cost.
- E) total revenue.

Answer: A

Diff: 1

Topic: The Firm's Output Decision

19) In a perfectly competitive market, a firm maximizes its profit by producing the quantity of output at which

- A) market price equals average fixed cost.
- B) market price equals marginal cost.
- C) average variable cost equals average fixed cost.
- D) market price equals minimum average variable cost.
- E) market price equals marginal revenue.

Answer: B

Diff: 1

Topic: The Firm's Output Decision

20) If price falls below minimum average variable cost, the best a firm can do is

- A) increase production and incur a loss equal to total variable cost.
- B) increase production and incur a loss equal to total fixed cost.
- C) stop production and incur a loss equal to total fixed cost.
- D) stop production and incur a loss equal to total variable cost.
- E) stay at the same production level and incur a loss equal to the difference between total cost and total revenue.

Answer: C

Diff: 2

Topic: The Firm's Output Decision

Use the figure below to answer the following question.

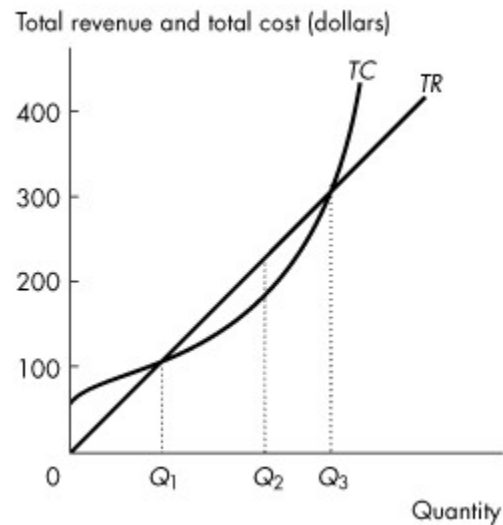


Figure 12.2.1

21) Refer to Figure 12.2.1, which shows a perfectly competitive firm's total revenue and total cost curves. Which one of the following statements is false?

- A) Economic profit is the vertical distance between the total revenue curve and the total cost curve.
- B) At an output of Q_1 units a day, the firm makes zero economic profit.
- C) At an output greater than Q_3 units a day, the firm incurs an economic loss.
- D) At an output of Q_2 units a day, the firm incurs an economic loss.
- E) At an output less than Q_1 units a day, the firm incurs an economic loss.

Answer: D

Diff: 2

Topic: The Firm's Output Decision

Use the figure below to answer the following questions.

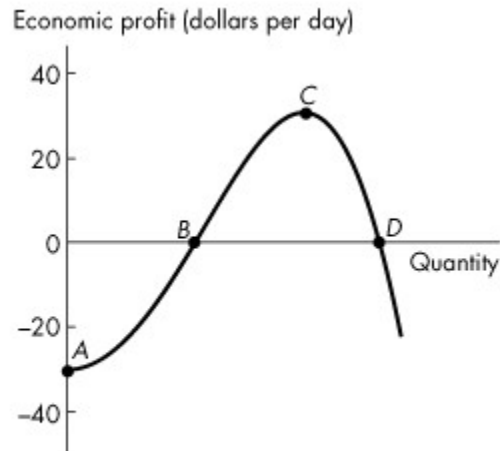


Figure 12.2.2

22) Refer to Figure 12.2.2, which shows a perfectly competitive firm's economic profit and loss. The firm is incurring a loss at

- A) point A.
- B) point B.
- C) point C.
- D) point D.
- E) both points B and D.

Answer: A

Diff: 2

Topic: The Firm's Output Decision

23) Refer to Figure 12.2.2, which shows a perfectly competitive firm's economic profit and loss. The firm is breaking even at points

- A) A and C.
- B) A and D.
- C) B and C.
- D) B and D.
- E) C and D.

Answer: D

Diff: 2

Topic: The Firm's Output Decision

24) A perfectly competitive firm's supply curve includes its marginal cost curve at all prices above minimum

- A) average total cost.
- B) average fixed cost.
- C) total cost.
- D) average variable cost.
- E) total variable cost.

Answer: D

Diff: 2

Topic: The Firm's Output Decision

25) A perfectly competitive firm is maximizing profit if

- A) marginal cost equals price and price is not below minimum average variable cost.
- B) marginal cost equals price and price is not below minimum average fixed cost.
- C) total revenue is at a maximum.
- D) average variable cost is at a minimum.
- E) average total cost is at a minimum.

Answer: A

Diff: 3

Topic: The Firm's Output Decision

26) If a perfectly competitive firm is producing an output at which price is equal to average total cost, the firm

- A) should shut down.
- B) is breaking even.
- C) is making an economic profit.
- D) is incurring an economic loss.
- E) is not producing its profit-maximizing quantity.

Answer: B

Diff: 2

Topic: The Firm's Output Decision

27) If a perfectly competitive firm's marginal revenue is less than its marginal cost, the firm

- A) cannot increase its economic profit.
- B) must be making an economic profit.
- C) should decrease its output to increase economic profit.
- D) should increase its output to increase economic profit.
- E) must raise the price.

Answer: C

Diff: 2

Topic: The Firm's Output Decision

28) The maximum loss a firm will experience in the short run equals

- A) zero.
- B) its total fixed cost.
- C) its total variable cost.
- D) its total cost.
- E) its marginal cost.

Answer: B

Diff: 2

Topic: The Firm's Output Decision

29) In the price range below minimum average variable cost, a perfectly competitive firm's supply curve is

- A) horizontal at the market price.
- B) vertical at zero output.
- C) the same as its marginal cost curve.
- D) the same as its average variable cost curve.
- E) none of the above.

Answer: B

Diff: 2

Topic: The Firm's Output Decision

Source: Study Guide

30) In the price range above minimum average variable cost, a perfectly competitive firm's supply curve is

- A) horizontal at the market price.
- B) vertical at zero output.
- C) the same as its marginal cost curve.
- D) the same as its average variable cost curve.
- E) none of the above.

Answer: C

Diff: 1

Topic: The Firm's Output Decision

31) If a perfectly competitive firm is producing in the short run at an output where price is less than average total cost, the firm

- A) will shut down.
- B) is breaking even.
- C) is still making a positive economic profit.
- D) is incurring an economic loss but will continue to operate as long as price is above minimum average fixed cost.
- E) is incurring an economic loss but will continue to operate as long as price is above minimum average variable cost.

Answer: E

Diff: 2

Topic: The Firm's Output Decision

- 32) If a perfectly competitive firm's marginal revenue is greater than its marginal cost, the firm
- A) cannot increase its economic profit.
 - B) must be making an economic profit.
 - C) will decrease its output to increase economic profit.
 - D) will increase its output to increase economic profit.
 - E) will lower the price.

Answer: D

Diff: 2

Topic: The Firm's Output Decision

- 33) In a perfectly competitive market, the market price is \$8. An individual firm is producing the output at which $MC = \$8$. AVC at that output is \$10. What should the firm do to maximize its economic profit in the short run?

- A) Shut down.
- B) Expand output.
- C) Contract output.
- D) Leave output unchanged.
- E) Raise the price.

Answer: A

Diff: 2

Topic: The Firm's Output Decision

- 34) If a perfectly competitive firm in the short run is able to pay its variable costs and part, but not all, of its fixed costs, then it is operating in the range on its marginal cost curve that is anywhere

- A) above the break-even point.
- B) below the break-even point.
- C) above the shutdown point.
- D) below the shutdown point.
- E) between the shutdown and break-even points.

Answer: E

Diff: 2

Topic: The Firm's Output Decision

Source: Study Guide

- 35) If a perfectly competitive firm in the short run is able to pay its variable costs and all of its fixed costs and more, then it is operating in the range on its marginal cost curve that is

- A) above the break-even point.
- B) below the break-even point.
- C) above the shutdown point.
- D) below the shutdown point.
- E) between the shutdown and break-even points.

Answer: A

Diff: 2

Topic: The Firm's Output Decision

- 36) In a perfectly competitive industry, the market price is \$5. An individual firm is producing the level of output where marginal cost is \$5 and is increasing, and average total cost is \$25.

What should the firm do to maximize its economic profit in the short run?

- A) Shut down.
- B) Expand output.
- C) Contract output.
- D) Leave output unchanged.
- E) Insufficient information to answer.

Answer: E

Diff: 3

Topic: The Firm's Output Decision

Use the table below to answer the following question.

Table 12.2.4

Price (dollars per box)	Quantity demanded (thousands of boxes per week)
3.65	500
5.20	450
6.80	400
8.40	350
10.00	300
11.60	250
13.20	200

Quantity (boxes per week)	Marginal cost (dollars per additional box)	Average variable cost (dollars per box)	Average total cost (dollars per box)
200	6.40	7.80	12.80
250	7.00	7.00	11.00
300	7.65	7.10	10.43
350	8.40	7.20	10.06
400	10.00	7.50	10.00
450	12.40	8.00	10.22
500	20.70	9.00	11.00

37) Refer to Table 12.2.4. The market is perfectly competitive and there are 1,000 firms that produce paper.

The top table sets out the market demand schedule for paper.

Each producer of paper has the costs shown in the bottom table when it uses its least-cost plant size.

The market price is _____ a box, the market output is _____ boxes, and the output produced by each firm is _____ boxes. Each firm _____.

- A) \$7.00; 250,000; 250; incurs an economic loss of \$1,000 a week
- B) \$8.40; 350,000; 350; makes zero economic profit
- C) \$7.65; 300,000; 300; incurs an economic loss of \$834 a week
- D) \$8.40; 350,000; 350; incurs an economic loss of \$581 a week
- E) \$7.65; 300,000; 300; makes zero economic profit

Answer: D

Topic: The Firm's Output Decision

Source: MyEconLab

12.3 Output, Price and Profit in the Short Run

1) In which one of the following situations will a perfectly competitive firm make an economic profit?

- A) $MR > AVC$
- B) $MR > ATC$
- C) $ATC > MC$
- D) $ATC > MR$
- E) $MC > AVC$

Answer: B

Diff: 2

Topic: Output, Price, and Profit in the Short Run

Source: Study Guide

2) In which one of the following situations will a perfectly competitive firm incur an economic loss?

- A) $MR > AVC$
- B) $MR > ATC$
- C) $ATC < MC$
- D) $ATC > MR$
- E) $MC > AVC$

Answer: D

Diff: 2

Topic: Output, Price, and Profit in the Short Run

3) A firm in a perfectly competitive industry is maximizing its economic profit by producing 500 units of output. At 500 units of output, which one of the following must be false?

- A) $MC < AVC$
- B) $MC < ATC$
- C) $MC > ATC$
- D) $MR < ATC$
- E) $MR > AVC$

Answer: A

Diff: 3

Topic: Output, Price, and Profit in the Short Run

4) If a profit-maximizing firm in a perfectly competitive market is making an economic profit, then it must be producing a level of output where

- A) price is greater than marginal cost.
- B) price is greater than marginal revenue.
- C) marginal cost is greater than marginal revenue.
- D) marginal cost is greater than average total cost.
- E) average total cost is greater than marginal cost.

Answer: D

Diff: 3

Topic: Output, Price, and Profit in the Short Run

5) If a profit-maximizing firm in a perfectly competitive market is incurring an economic loss, then it must be producing a level of output where

- A) price is greater than marginal cost.
- B) price is greater than marginal revenue.
- C) marginal cost is greater than marginal revenue.
- D) average total cost is greater than marginal cost.
- E) average total cost is less than marginal cost.

Answer: D

Diff: 3

Topic: Output, Price, and Profit in the Short Run

6) In a perfectly competitive market, the short-run market supply curve is

- A) the horizontal sum of the supply curves of all the individual firms.
- B) the vertical sum of the supply curves of all the individual firms.
- C) vertical at the total level of output being produced by all firms.
- D) horizontal at the current market price.
- E) none of the above.

Answer: A

Diff: 1

Topic: Output, Price, and Profit in the Short Run

Source: Study Guide

Use the figure below to answer the following questions.

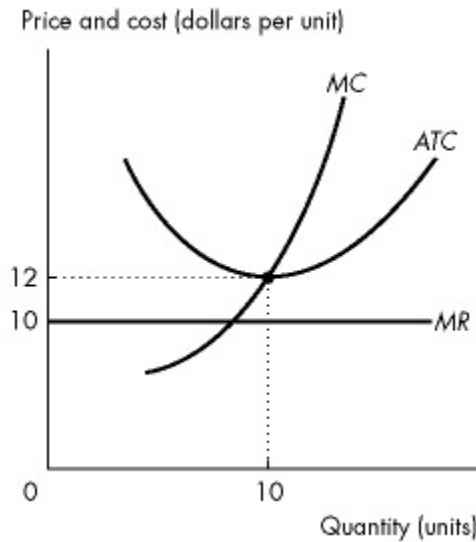


Figure 12.3.1

7) Refer to Figure 12.3.1, which shows the cost curves and marginal revenue curve of a firm in a perfectly competitive industry. In the short run, if the market price of the good is \$10, the firm produces _____ units of output and _____.

- A) 10; incurs an economic loss of \$20
- B) 10; incurs an economic loss of \$40
- C) less than 10; incurs an economic loss of \$20
- D) 10; makes an economic profit of \$20
- E) less than 10; incurs an economic loss of less than \$20

Answer: E

Diff: 3

Topic: Output, Price, and Profit in the Long Run

8) Refer to Figure 12.3.1 which shows the cost curves and marginal revenue curve of a firm in a perfectly competitive industry. In the short run, the firm will

- A) exit from the industry.
- B) break even.
- C) make an economic profit.
- D) incur an economic loss.
- E) close down.

Answer: D

Diff: 2

Topic: Output, Price, and Profit in the Long Run

Use the figure below to answer the following question.

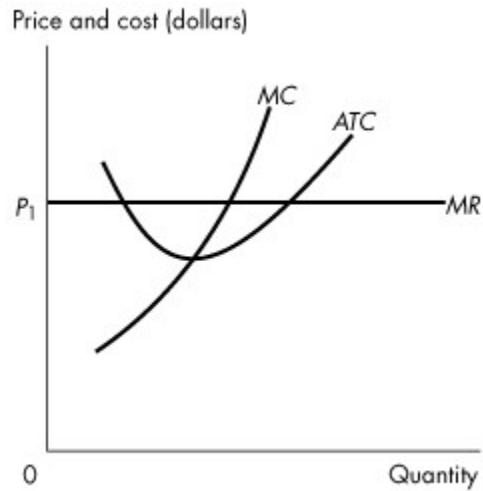


Figure 12.3.2

9) Refer to Figure 12.3.2 which shows the cost curves and marginal revenue curve of a firm in a perfectly competitive industry, The firm is

- A) making an economic profit.
- B) incurring an economic loss.
- C) breaking even.
- D) not maximizing economic profit.
- E) going to close down temporarily.

Answer: A

Diff: 2

Topic: Output, Price, and Profit in the Long Run

Use the figure below to answer the following questions.

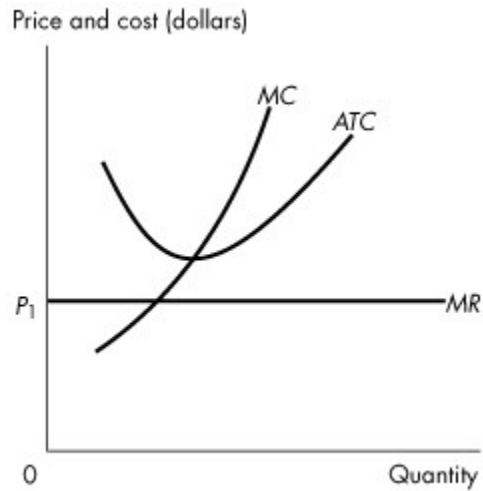


Figure 12.3.3

10) Refer to Figure 12.3.3 which shows the cost curves and marginal revenue curve of a firm in a perfectly competitive industry. The firm is

- A) making an economic profit.
- B) incurring an economic loss.
- C) breaking even.
- D) at its shutdown point.
- E) none of the above.

Answer: B

Topic: Output, Price, and Profit in the Long Run

12.4 Output, Price, and Profit in the Long Run

Use the information below to answer the following questions.

Fact 12.4.1

Franklin is a fiddlehead farmer. He sold 10 bags of fiddleheads last month, with total fixed cost of \$100 and total variable cost of \$50.

- 1) Refer to Fact 12.4.1. If the price of fiddleheads last month was \$15 per bag, Franklin
- A) should have shut down because total revenue did not cover total variable cost.
 - B) incurred an economic loss of \$135.
 - C) made zero economic profit.
 - D) made an economic profit of \$50.
 - E) made an economic profit of \$100.

Answer: C

Diff: 2

Topic: Output, Price, and Profit in the Long Run

Source: Study Guide

- 2) Refer to Fact 12.4.1. Suppose the price of fiddleheads is expected to stay at \$10 per bag for the foreseeable future, and Franklin's production and cost figures are expected to stay the same. His total fixed cost consists entirely of rent on land, and his five-year lease on the land runs out at the end of the month. Should Franklin renew the lease?
- A) Yes, because total revenue will still cover total fixed cost.
 - B) Yes, because total revenue will still cover total variable cost and a portion of total fixed cost.
 - C) No, because total revenue must cover all costs for factors of production to remain in fiddlehead farming in the long run.
 - D) No, because in the long run, zero economic profit is a signal to move factors of production out of fiddlehead farming.
 - E) insufficient information to answer

Answer: C

Diff: 3

Topic: Output, Price, and Profit in the Long Run

Source: Study Guide

Use the figure below to answer the following questions.

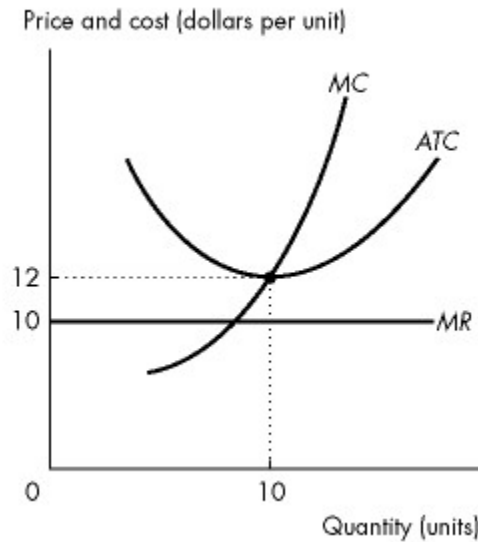


Figure 12.4.1

3) Refer to Figure 12.4.1, which shows the cost curves and marginal revenue curve of a firm in a perfectly competitive industry. In the long run, market

- A) demand will increase.
- B) demand will decrease.
- C) supply will increase.
- D) supply will decrease.
- E) supply and market demand will decrease.

Answer: D

Diff: 2

Topic: Output, Price, and Profit in the Long Run

4) Refer to Figure 12.4.1 which shows the cost curves and marginal revenue curve of a firm in a perfectly competitive industry. In the long run,

- A) firms that remain in the market will expand production.
- B) market demand will increase.
- C) market supply will increase.
- D) firms will enter the market.
- E) firms that remain in the market will reduce production.

Answer: A

Diff: 3

Topic: Output, Price, and Profit in the Long Run

Use the figure below to answer the following questions.

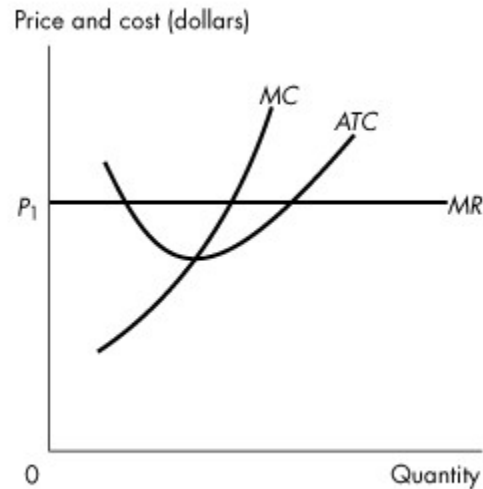


Figure 12.4.2

5) Refer to Figure 12.4.2 which shows the cost curves and marginal revenue curve of a firm in a perfectly competitive industry. In the long run, market

- A) demand will increase.
- B) demand will decrease.
- C) supply will increase.
- D) supply will decrease.
- E) supply and market demand will decrease.

Answer: C

Diff: 2

Topic: Output, Price, and Profit in the Long Run

6) Refer to Figure 12.4.2 which shows the cost curves and marginal revenue curve of a firm in a perfectly competitive industry. In the long run,

- A) firms that remain in the market will expand production.
- B) market demand will increase.
- C) market supply will decrease.
- D) firms will exit the market.
- E) firms that remain in the market will decrease production.

Answer: E

Diff: 2

Topic: Output, Price, and Profit in the Long Run

Use the figure below to answer the following questions.

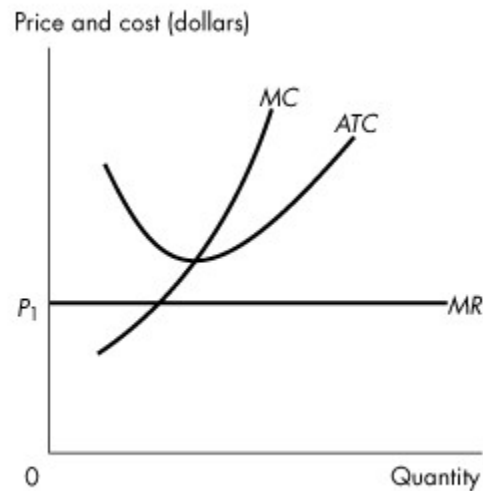


Figure 12.4.3

7) Refer to Figure 12.4.3. which shows the cost curves and marginal revenue curve of a firm in a perfectly competitive industry. In the long run, market

- A) demand will increase.
- B) demand will decrease.
- C) supply will increase.
- D) supply will decrease.
- E) demand and market supply will both increase.

Answer: D

Diff: 2

Topic: Output, Price, and Profit in the Long Run

8) Refer to Figure 12.4.3 which shows the cost curves and marginal revenue curve of a firm in a perfectly competitive industry. In the long run,

- A) firms that remain in the market will expand production.
- B) market demand will increase.
- C) firms will adopt labour-saving technology.
- D) industry output will remain constant.
- E) firms will enter the market.

Answer: A

Diff: 2

Topic: Output, Price, and Profit in the Long Run

9) Refer to Figure 12.4.3 which shows the cost curves and marginal revenue curve of a firm in a perfectly competitive industry. Firms are

- A) making an economic profit, and some firms leave the industry. Industry supply decreases.
- B) making an economic profit, and some firms enter the industry. Industry supply increases.
- C) incurring an economic loss, and some firms leave the industry. Industry supply decreases.
- D) incurring an economic loss, and some firms enter the industry. Industry supply increases.
- E) loss, but since they are covering average variable cost, no one will exit the industry in the long run.

Answer: C

Diff: 2

Topic: Output, Price, and Profit in the Long Run

10) If firms exit an industry, the

- A) industry supply curve shifts leftward.
- B) price of the good falls.
- C) economic profit of the remaining firms decrease.
- D) output of the industry increases.
- E) economic profit of the remaining firms stay the same.

Answer: A

Diff: 2

Topic: Output, Price, and Profit in the Long Run

11) When a perfectly competitive market is in long-run equilibrium

- A) at least one firm makes an economic profit.
- B) all firms make zero economic profit.
- C) firms enter the market if other firms are making an economic profit.
- D) firms exit the market if other firms are incurring an economic loss.
- E) all of the above.

Answer: B

Diff: 2

Topic: Output, Price, and Profit in the Long Run

12) Long-run equilibrium occurs in a competitive market when

- A) economic profit and economic loss have been eliminated.
- B) no barriers to entry exist.
- C) all firms are operating at their shutdown points.
- D) price equals marginal cost.
- E) none of the above.

Answer: A

Diff: 1

Topic: Output, Price, and Profit in the Long Run

13) Which one of the following does not occur in the long run when firms in an industry make an economic profit?

- A) Firms enter the industry.
- B) The industry supply curve shifts rightward.
- C) Each firm increases production.
- D) Economic profit of each firm decreases.
- E) Market price falls.

Answer: C

Diff: 2

Topic: Output, Price, and Profit in the Long Run

14) Firms will stop exiting an industry only when

- A) marginal revenue equals price.
- B) marginal revenue equals marginal cost.
- C) all remaining firms are making an economic profit.
- D) all remaining firms are making zero economic profit.
- E) marginal revenue equals average fixed cost.

Answer: D

Diff: 2

Topic: Output, Price, and Profit in the Long Run

15) If firms in a perfectly competitive market are making an economic profit, new firms will enter. This entry shifts the industry

- A) demand curve leftward, and the market price falls.
- B) demand curve rightward, and the market price rises.
- C) supply curve leftward, and the market price rises.
- D) supply curve rightward, and the market price falls.
- E) none of the above.

Answer: D

Diff: 2

Topic: Output, Price, and Profit in the Long Run

16) If firms in a perfectly competitive market are incurring an economic loss, some firms will exit. This exit shifts the industry

- A) demand curve leftward, and the market price falls.
- B) demand curve rightward, and the market price rises.
- C) supply curve leftward, and the market price rises.
- D) supply curve rightward, and the market price falls.
- E) none of the above.

Answer: C

Diff: 2

Topic: Output, Price, and Profit in the Long Run

17) A perfectly competitive industry is in short-run equilibrium with price below average total cost. Which one of the following is not a prediction of the long-run consequences of such a situation?

- A) Price will rise.
- B) The output of the industry will increase.
- C) Firms will exit the industry.
- D) The output of each existing firm will increase.
- E) Economic profit will be zero.

Answer: B

Diff: 3

Topic: Output, Price, and Profit in the Long Run

Source: Study Guide

18) Consider the perfectly competitive market for widgets. Neither external economies nor diseconomies exist. A news story is released, stating that consumption of widgets helps to fight cancer. As a result,

- A) in the short run both price and quantity increase. In the long run quantity increases and the price falls.
- B) in the short run both price and quantity increase. In the long run the price returns to the original level and quantity increases.
- C) in the short run price remains constant and quantity increases. In the long run both price and quantity increase.
- D) in the short run price and quantity increase. In the long run both price and quantity increase above their original values.
- E) in the short run both price and quantity remain unchanged. In the long run price and quantity increase.

Answer: B

Diff: 3

Topic: Output, Price, and Profit in the Long Run

19) Suppose that the market in which bakeries compete is a perfectly competitive market. Which one of the following reasons does not explain why it is difficult for a bakery to make an economic profit in the long run?

- A) All bakeries are price takers.
- B) All bakeries are able to set the market price.
- C) The threat of entry by potential bakeries.
- D) The demand facing each bakery is perfectly elastic.
- E) All bakeries produce identical goods.

Answer: B

Topic: Output, Price, and Profit in the Long Run

Use the table below to answer the following question.

Table 12.4.1

Price (dollars per box)	Quantity demanded (thousands of boxes per week)
3.65	500
5.20	450
6.80	400
8.40	350
10.00	300
11.60	250
13.20	200

Quantity (boxes per week)	Marginal cost (dollars per additional box)	Average variable cost (dollars per box)	Average total cost (dollars per box)
200	6.40	7.80	12.80
250	7.00	7.00	11.00
300	7.65	7.10	10.43
350	8.40	7.20	10.06
400	10.00	7.50	10.00
450	12.40	8.00	10.22
500	20.70	9.00	11.00

20) Refer to Table 12.4.1. The top table shows the market demand schedule for paper. The market is perfectly competitive and there are 1,000 firms that produce paper. Each firm has the costs shown in the bottom table when it uses its least-cost plant. The market price in the long run is _____ a box and the equilibrium quantity produced in the long run is _____ boxes a week.

- A) \$11.60; 250,000
- B) \$7.00; a little less than 400,000
- C) \$10.00; 300,000
- D) \$6.40; a little more than 400,000
- E) \$8.40; 350,000

Answer: C

Topic: Output, Price, and Profit in the Long Run

Source: MyEconLab

12.5 Changing Tastes and Advancing Technology

1) Consider a perfectly competitive industry with long-run external diseconomies. When demand increases permanently, the equilibrium price

- A) remains constant and the equilibrium quantity increases.
- B) remains constant and the equilibrium quantity decreases.
- C) rises and the equilibrium quantity increases.
- D) falls and the equilibrium quantity decreases.
- E) rises and the equilibrium quantity remains the same.

Answer: C

Diff: 3

Topic: Changing Tastes and Advancing Technology

2) Consider a perfectly competitive industry with long-run external economies. When demand increases permanently, the equilibrium price

- A) remains constant and the equilibrium quantity increases.
- B) remains constant and the equilibrium quantity decreases.
- C) rises and the equilibrium quantity decreases.
- D) falls and the equilibrium quantity increases.
- E) falls and the equilibrium quantity remains the same.

Answer: D

Diff: 3

Topic: Changing Tastes and Advancing Technology

3) What is the effect of a permanent increase in demand in a perfectly competitive market, with no external economies or diseconomies?

- A) Market price increases in the long run.
- B) Average cost decreases in the long run.
- C) Market price decreases in the long run.
- D) Average cost increases in the long run.
- E) Market price remains constant in the long run.

Answer: E

Diff: 3

Topic: Changing Tastes and Advancing Technology

4) Technological change spreads through a perfectly competitive industry. Choose the statement that is incorrect.

- A) The market price falls and the equilibrium quantity increases.
- B) The technological change brings permanent gains for consumers and producers.
- C) Firms that do not change to the new technology will incur an economic loss and eventually go out of business.
- D) Firms that are quick to adopt to the new technology will make economic profits initially, but in the long run they will make zero economic profit.
- E) Average cost will fall for firms who adopt the new technology.

Answer: B

Diff: 3

Topic: Changing Tastes and Advancing Technology

- 5) External economies are factors beyond the control of an individual firm which
- A) lower its marginal revenue as market output increases.
 - B) raise its costs as market output increases.
 - C) lower its costs as market output increases.
 - D) lower its economic profit as market output increases.
 - E) raise its economic profit as market output increases.

Answer: C

Diff: 2

Topic: Changing Tastes and Advancing Technology

Use the figure below to answer the following question.

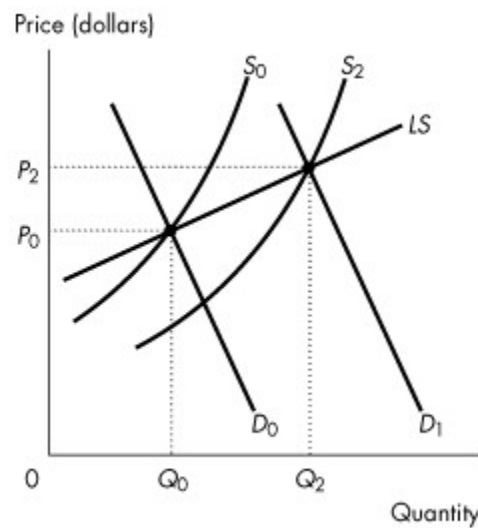


Figure 12.5.1

- 6) Refer to Figure 12.5.1. Given the increase in market demand from D_0 to D_1 , the graph represents

- A) a constant cost industry.
- B) an increasing cost industry.
- C) a decreasing cost industry.
- D) an inefficient market.
- E) a market experiencing a technological change.

Answer: B

Diff: 2

Topic: Changing Tastes and Advancing Technology

- 7) The long-run market supply curve is positively sloped when
- A) external economies exist.
 - B) external diseconomies exist.
 - C) neither external economies nor diseconomies exist.
 - D) external costs exist.
 - E) external benefits exist.

Answer: B

Diff: 2

Topic: Changing Tastes and Advancing Technology

- 8) The long-run market supply curve is negatively sloped if
- A) external economies exist.
 - B) external diseconomies exist.
 - C) neither external economies nor diseconomies exist.
 - D) external costs exist.
 - E) external benefits exist.

Answer: A

Diff: 2

Topic: Changing Tastes and Advancing Technology

- 9) Which one of the following is not true of a new long-run equilibrium which is the result of a new technology in a perfectly competitive industry?
- A) The equilibrium price falls.
 - B) Industry output increases.
 - C) Economic profit of each firm remaining in the industry increases.
 - D) All firms in the industry use the new technology.
 - E) Average total cost decreases.

Answer: C

Diff: 2

Topic: Changing Tastes and Advancing Technology

Source: Study Guide

- 10) If an industry experiences external economies as the industry expands in the long run, the long-run market supply
- A) is perfectly inelastic.
 - B) is perfectly elastic.
 - C) curve has a positive slope.
 - D) curve has a negative slope.
 - E) has allocative inefficiency.

Answer: D

Diff: 2

Topic: Changing Tastes and Advancing Technology

Source: Study Guide

11) If an industry experiences external diseconomies as the industry expands in the long run, the long-run market supply

- A) is perfectly inelastic.
- B) is perfectly elastic.
- C) curve has a positive slope.
- D) curve has a negative slope.
- E) curve is vertical.

Answer: C

Diff: 2

Topic: Changing Tastes and Advancing Technology

12) A perfectly competitive industry, with no external economies or diseconomies, is initially in long-run equilibrium. There is a permanent decrease in demand. After adjustment to the new long-run equilibrium

- A) the remaining firms in the industry will each be producing more output than previously.
- B) the remaining firms in the industry will each be producing less output than previously.
- C) the remaining firms in the industry will each be producing the same output as previously.
- D) the remaining firms in the industry may each be producing more output than previously, depending on the size of the change in demand.
- E) the remaining firms in the industry will each be producing either the same or more output than previously.

Answer: C

Topic: Changing Tastes and Advancing Technology

13) A perfectly competitive industry, with no external economies or diseconomies, is initially in long-run equilibrium. There is a permanent increase in demand. After adjustment to the new long-run equilibrium

- A) the remaining firms in the industry will each be producing more output than previously.
- B) the remaining firms in the industry will each be producing less output than previously.
- C) the remaining firms in the industry will each be producing the same output as previously.
- D) the remaining firms in the industry may each be producing more output than previously, depending on the size of the change in demand.
- E) the remaining firms in the industry will each be producing either the same or more output than previously.

Answer: C

Topic: Changing Tastes and Advancing Technology

14) A market with constant costs is in long-run equilibrium when it experiences a permanent increase in demand.

In the short run, firms in the market _____. In the long run, some firms _____ the market.

- A) make zero economic profit; exit
- B) make an economic profit; enter
- C) incur an economic loss; exit
- D) make zero economic profit; enter
- E) none of the above

Answer: B

Topic: Changing Tastes and Advancing Technology

Source: MyEconLab

15) A market with constant costs is in long-run equilibrium when it experiences a permanent increase in demand.

Market supply _____ and the market price _____.

Market output _____ and in the long run each remaining firm makes _____ profit.

- A) increases; falls until it reaches each firms' minimum average total cost; increases; zero economic
- B) decreases; rises until it reaches each firms' minimum average variable cost; decreases; zero economic
- C) increases; falls; increases; an economic
- D) decreases; rises until it reaches each firms' minimum average total cost; decreases; an economic
- E) increases; does not change; increases; zero economic

Answer: A

Topic: Changing Tastes and Advancing Technology

Source: MyEconLab

16) A market with constant costs is in long-run equilibrium when it experiences a permanent decrease in demand.

In the short run, firms in the market _____.

In the long run, some firms _____ the market.

Market supply _____ and the market price _____.

Market output _____ and in the long run each remaining firm makes _____ profit.

- A) incur an economic loss; exit; decreases; rises until it reaches the firms' minimum average total cost; decreases; zero economic
- B) make zero economic profit; enter; increases; falls; increases; an economic
- C) incur an economic loss; exit; decreases; rises until it reaches the firms' minimum average total cost; decreases; an economic
- D) make zero economic profit; exit; decreases; rises until it reaches the firms' minimum average variable cost; decreases; an economic
- E) make an economic profit; enter; increases; falls; increases; economic profit

Answer: A

Topic: Changing Tastes and Advancing Technology

Source: MyEconLab

12.6 Competition and Efficiency

1) Which one of the following need not be satisfied to achieve allocative efficiency?

- A) Marginal social cost equals marginal social benefit.
- B) The sum of consumer surplus and producer surplus is maximized.
- C) Price equals marginal social benefit.
- D) Price equals marginal social cost.
- E) Only high-quality goods are produced.

Answer: E

Diff: 3

Topic: Competition and Efficiency

2) All of the following statements are true except

- A) consumers allocate their budgets to get the most value possible.
- B) we derive a consumer's demand curve by finding how the best budget allocation changes as the price of a good changes.
- C) firms get the most value out of their resources at every point along a consumer's demand curve.
- D) a competitive equilibrium achieves an efficient outcome.
- E) when firms in perfect competition are away from the long-run equilibrium, the market is still efficient.

Answer: C

Diff: 2

Topic: Competition and Efficiency

3) An efficient allocation is achieved when

- A) consumers are selecting points on their demand curves.
- B) producers are selecting points on their supply curves.
- C) the sum of consumer surplus and producer surplus is maximized.
- D) all of the above.
- E) none of the above.

Answer: D

Diff: 2

Topic: Competition and Efficiency

4) Resources are used efficiently when

- A) consumers are on their marginal benefit curves.
- B) firms are economically efficient.
- C) price equals marginal social benefit equals marginal social cost.
- D) there are no external benefits or external costs.
- E) all of the above.

Answer: E

Diff: 2

Topic: Competition and Efficiency

Source: Study Guide

5) Producers choose _____.

Producers are efficient on the market supply curve because _____.

A) to produce a good or service only if they will receive a producer surplus; every point on the market supply curve maximizes producer surplus

B) to maximize profit; on the market supply curve scarcity is eliminated

C) to produce goods and services made with the newest technology; the market supply curve traces out the same path as a firm's marginal cost curve

D) to maximize profit; we derive the firm's supply curve by finding the profit-maximizing quantity at each price

E) to produce goods and services made with the newest technology; every point on the market supply curve shows the marginal cost of production using new technology

Answer: D

Topic: Competition and Efficiency

Source: MyEconLab

6) Consumers choose _____.

Consumers are efficient on the market demand curve because _____.

A) to maximize profit; they only purchase goods and services that they can afford

B) to buy a good or service only if they will receive a consumer surplus; every point on the market demand curve maximizes consumer surplus

C) to purchase goods and services made with the newest technology; the market demand curve traces out the same path as the marginal revenue curve

D) to allocate their budgets to get the most value possible out of them; we derive a consumer's demand curve by finding how the best budget allocation changes as the price of a good changes

E) to allocate their budgets to get the most value possible out of them; they only purchase goods and services that they can afford

Answer: D

Topic: Competition and Efficiency

Source: MyEconLab

7) In a competitive market, the market demand curve measures the _____ if _____ exist.

In a competitive market, the market supply curve measures the _____ if _____ exist.

A) marginal social benefit; no external costs; marginal social cost; no external benefits

B) firms' marginal benefit; external benefits; consumers' marginal cost; external costs

C) marginal social benefit; no external benefits; marginal social cost; no external costs

D) marginal social benefit; external benefits; marginal social cost; external costs

E) consumer surplus; external benefits; producer surplus; external costs

Answer: C

Topic: Competition and Efficiency

Source: MyEconLab