

California Softball Officials Association
Study Guide Questions 2009

Instructions: There are 100 True/False, Multiple Choice and Short Answer questions. You are to mark your answer(s) to the questions on the enclosed answer sheet. There may be more than one correct answer for the Multiple Choice questions. Be sure to read the complete question before DARKENING the appropriate letter(s). Write the entire rule reference on the line provided.

True/False

Indicate whether the statement is true or false.

1. If space allows, the on-deck circle should be 30 feet from home plate.
2. The batting helmet shall have extending earflaps, which covers both ears and temples.
3. A timing play occurs when the last out of an inning is the result of a force out.
4. A charged conference is a meeting, which may involve the coach or other team personnel.
5. A thrown ball is considered trapped if it is on the ground and the glove/mitt or hand is over it, and the player does not have control.
6. One base is awarded to a base runner when a defender fakes a tag.
7. An "infield fly" cannot be ruled if an outfielder catches the ball.
8. A pitcher is in the 16-foot circle when both feet are within or partially within the line.
9. DP Jones is batting sixth in the batting order. Smith is listed 10th on the line-up card and is the FLEX, playing 1st base. In the fourth inning, substitute Green replaces Jones, becoming the new DP. In the seventh inning, the coach wants to enter Smith (the FLEX) to bat for the new DP Green. This is legal.
10. No conference shall be charged when a coach questions an umpire's judgment call.
11. Both the offense and the defense can be penalized for malicious contact.
12. A player not listed, as an eligible substitute on the lineup card, shall not be prohibited from playing.
13. Any starting player or substitute may be withdrawn from the game and re-entered once.
14. If a coach physically assists a runner during playing action, the ball is dead immediately, the assisted runner is out and all other action on the play is nullified.
15. Caps, visors and headbands may be mixed but must be the same color.
16. The umpire(s) shall decide whether the grounds and other conditions are suitable for starting the game.
17. Substitution rules are in effect after the umpire-in-chief accepts the lineup cards from both coaches during the pre-game plate conference.
18. The ball becomes dead immediately when there is interference by a batter.
19. A delayed dead-ball situation occurs when the umpire interferes with the catcher who is attempting to throw a non-batted ball.
20. It is legal for the pitcher to begin her pitching motion and then lift her pivot foot off the pitcher's plate and immediately return to the plate as she completes her delivery with the batter taking the pitch.
21. Under umpire supervision, the pitcher may use powdered resin to dry her hand(s).
22. A pitcher may use a windup in which there is a reversal of the forward motion.
23. Prior to pitching, the pitcher must take a position with the shoulders in line with 1st and 3rd bases with the ball in the glove or pitching hand and with the hands separated.
24. The pitcher is permitted to use tape on the contact points of her fingers.
25. When the pitcher fails to deliver the pitch within the required timeframe, a ball is called on the batter and runners are advanced one base.
26. The batter is out when the ball hits the bat a second time while the ball is on or over fair territory.
27. The batter is declared out if she leans over the plate after the catcher receives the pitch and interferes with her attempt to throw out a base runner.
28. When a double 1st base is used, the runner may use the white portion of the bag if there is an out attempt from the foul side of 1st base.
29. A runner is not out if she passes an obstructed preceding runner.
30. The batter is awarded 1st base if a pitched ball strikes the ground and then contacts the batter, provided the ball isn't swung at or called a strike.

31. Runners are permitted to return to a missed base or a base left too soon before a dead-ball appeal can be made.
32. If a runner is obstructed while returning to a base that she missed or left too soon, she is protected.
33. It is interference if, when trying to reach a base, R1 pushes F6 who is attempting to tag her.
34. A player may not be a substitute for another player in the half-inning that she ran as a courtesy runner.
35. R1 is on 3rd base and R2 is on 1st base with one out. B4 hits a line drive to right center field. R2 is near 2nd base and R1 is standing on 3rd base when F9 catches the ball. F9 throws towards 1st base and retires R2 at 1st base on a close play. R1 touches home before the third out. The run does not count.
36. A runner is on third base with two outs. The batter gets a base hit. The runner on 3rd base scores. The batter takes an aggressive turn at 1st base and is tagged out after the runner touches the plate. The run scores.
37. After being warned, members of the visiting team continually berate the base umpire with profanities and violently throw equipment to demonstrate their displeasure. Since safety is compromised, the only option for the umpires is to declare a forfeit. Either umpire can declare the forfeit.
38. The defense may appeal either during a live or dead ball, but it must occur immediately after the play and before the next legal or illegal pitch.
39. If asked properly, you must ask your partner for help.
40. The plate umpire is responsible for ensuring that a team's bats and helmets are inspected.

Multiple Choice

Identify the choice that best completes the statement or answers the question.

41. While F1 is taking her warm-up pitches, B1 moves near the batter's box and takes practice swings to prepare for her upcoming time at bat. What's your call(s)?
 - a. It is legal since she is not in the batter's box
 - b. It is legal as long as she is within 10 feet of the on-deck circle
 - c. It is illegal and she is restricted to the bench
 - d. It is illegal and she is sent to the on-deck circle
42. In fast pitch, the coefficient of restitution shall not exceed....
 - a. .41
 - b. .44
 - c. .47
 - d. .50
 - e. .55
43. A team hangs its bats and helmets on a portable rack that attaches to the fence, but in live ball area. What's your call(s)?
 - a. Restrict the coach to the bench
 - b. Issue a team warning for unsportsmanship
 - c. Nothing, it is legal.
 - d. Require the equipment to be located in dead ball territory
44. Where does the three-foot running lane start?
 - a. The first 30 feet between home plate and 1st base
 - b. The last 30 feet between home plate and 1st base
 - c. The first 30 feet between 3rd base and home plate
 - d. The last 30 feet between 3rd base and home plate
45. A batted ball hits only the pitcher's plate and rolls into foul territory between home and 3rd base. What's your call(s)?
 - a. Signal fair ball
 - b. Signal foul ball

46. R2 is on 1st base and R1 is on 2nd base with no outs. B3 hits a high pop foul between home and 1st base. F3 with ordinary effort loses sight of the ball because of the sun. The ball lands on foul ground and without being touched rolls into fair territory halfway between home and 1st base. What's your call(s)?
- Foul ball
 - Fair ball, no one out
 - Fair ball, B3 is out
 - Fair ball, R1 is out
47. Regarding an infield fly:
- Once an infielder steps onto the outfield grass, the infield fly should never be called.
 - The infield fly should be called as soon as the ball is batted in the air for the benefit of the fielders.
 - A bunt can be ruled an infield fly if the ball is batted in the air.
 - Any ball batted in flight with a perceptible arc could be declared an infield fly.
 - The infield fly rule was designed to protect runners from trickery by the defensive team
48. B1 hits a ground ball to F6. With her foot on 1st base, F3 secures the thrown ball while her hand is on top of the ball and the ball has contact with the ground. F3 turns her hand over and upward to demonstrate that she has control of the ball. What's your call(s)?
- B1 is out if F3 raises her glove with the ball inside before B1 reaches 1st base
 - B1 is out if F3 raises her glove with the ball inside after B1 passes 1st base
49. With R1 on 3rd base and no outs, B2 hits a line drive that is touched in flight by F1. The ball is caught before touching the ground by F6. What's your call(s)?
- The catch by F6 is legal and B2 is out
 - R3 must tag up at 3rd and cannot legally advance until F6 catches the ball
 - R3 can legally tag up just before F6 catches the ball
 - R3 can legally tag up after F6 catches the ball
 - R3 can legally tag up when F1 first touches the ball
50. With R1 on 2nd base and R2 on 1st base, B3 attempts to bunt the runners over. Her attempted bunt goes high into the air and it falls to the ground by F5. What's you call(s)?
- The infield fly rule applies
 - The infield fly rule does not apply
 - R1 can be forced out at 3rd base
 - R2 can be forced out at 2nd base
 - B3 is out for bunting the ball and the ball is dead
51. In fast pitch softball...
- The DP may bat only for the pitcher
 - The DP may bat for the FLEX player in the starting line-up
 - The DP may never play offense
 - If a starting player, the DP may leave the game and re-enter the game once
 - A substitute for the DP becomes the new DP
52. Which combinations of head wear would be prohibited
- Caps & visors
 - Headbands & caps
 - Visors & headbands
 - Plastic visors & bandanas

53. An illegal substitute reaches 1st base and is discovered before the next pitch. What's your call(s)?
- The play stands and the substitute is restricted to the bench. A proper substitute is entered into the game
 - The play is nullified and all runners return to their base at the time of the pitch. No outs made on the play counts. The substitute is restricted to the bench
 - The play stands and runners are awarded one base from the time of the pitch
 - The play is nullified and the runners return to their base at the time of the pitch. All outs count. The substitute is restricted to the bench and is called out
54. In the top of the first inning, the team at bat informs the umpire that F6 is wearing jewelry. What's your call(s)?
- No warning; F6 is immediately ejected
 - A team warning is issued`
 - After a team warning about wearing jewelry, the next offender on that team is restricted to the dugout or bench for the remainder of the game.
 - F6 may not play until she removes the jewelry
 - F6 must remove the jewelry only if the umpire determines the jewelry is dangerous
55. R2 is on 2nd base with one out when B3 hits safely to center field. Attempting to score, R2 remains upright and intentionally crashes into F2. What's your call(s)?
- R2 must slide on the play
 - R2 is out and the ball is dead if F2 is about to receive the ball
 - R2 is out and the ball is dead if F2 has possession of the ball
 - R2 is ejected if her act is flagrant
 - R2 is ejected if her act is malicious
56. With R1 on 2nd base with no outs, B2 hits for extra bases. While the ball is in the outfield, R1 maliciously crashes into F2 who is standing between 3rd base and home. R1 continues on and touches home plate. What's your call(s)?
- Call time and return R1 to 3rd base
 - Declare the ball immediately dead
 - Call R1 out
 - Allow the run to score
 - Eject R1 from the game
57. In the fourth inning, the coach of the defensive team informs the umpires that the FLEX player is batting for the DP. The FLEX has a count of two balls and two strikes but did not report to the umpire. What's your call(s)?
- The offensive team is issued a warning for the unreported substitute
 - The next unreported substitute for the offending team is restricted to the bench/dugout for the remainder of the game
 - The DP is considered to have left he game
 - A legal substitute will be announced and assume the 2-2 count
 - Any advance of the runners while the unreported player was at bat is legal

58. Brown is batting third for team A. In the bottom of the fourth inning, White fails to report to the umpire and bats for Brown. After White singles to right, Team B notifies the umpire that White did not report. What's your call(s)?
- White is declared officially in the game
 - The home team's coach is ejected from the game
 - All play stands
 - The home team's coach is issued a warning
 - White and Brown are disqualified from the game
59. Which of the following statements about re-entry are true?
- Any starting player except the pitcher may re-enter the game
 - Substitutes may re-enter the game twice
 - A player who violates the re-entry rule is considered an illegal player
 - A player who violates the re-entry rule is considered an illegal substitute
 - A starting player may not re-enter the game until her substitute has batted once.
60. In the top of the first inning, the team at bat informs the umpire that F6 is wearing jewelry. What's your call(s)?
- F6 is immediately ejected from the game
 - The umpire will issue a team warning to the defense
 - After a team warning about wearing jewelry, the next offender and the head coach are restricted to the dugout/bench for the remainder of the game
 - F6 may not play until she removes the jewelry
 - F6 must remove the jewelry only if the umpire determines the jewelry to be dangerous
61. Play has gone beyond five full innings and is called because of weather conditions and the teams have not had an equal number of completed turns at bat. What's your call(s)?
- Score stands as is
 - You must complete the inning so both teams have equal opportunities
 - You revert back to the score of the last complete inning
 - The game is suspended and play is completed at a later date
62. At game time, a decision must be made on the fitness of the grounds for starting the game. Who makes the official decision?
- The plate umpire
 - The athletic director
 - The umpires will make a joint decision
 - The home coach
 - The visiting coach
63. A player is completely in dead ball territory and reestablishes herself in live ball territory and catches a fly ball. What's your call?
- The catch is legal
 - The catch is illegal
64. R1 is on 1st base and advancing on a hit. She misses 2nd base and heads towards 3rd base. F7 throws the ball out of play before R1 reaches 3rd base. What's your call(s)?
- R1 is awarded 3 bases on the overthrow. She does not have to retouch 1st base
 - R1 is awarded 3 bases on the overthrow. She does have to retouch 1st base.
 - R1 is awarded 2 bases on the overthrow. She does not have to retouch 2nd base.
 - R1 is awarded 2 bases on the overthrow. She does have to retouch 2nd base.
65. R2 is on 2nd base. B3 is at bat with a count of two balls and one strike. F1 attempts a quick return pitch

- when B3 is off balance from the previous pitch. The pitch enters the strike zone in flight. What's your call(s)?
- It's an illegal pitch
 - The ball is immediately dead
 - R2 mains at 2nd base
 - The plate umpire will declare, "No pitch"
 - B3 will remain at bat with a count of two balls and one strike
66. The pitcher deliberately rolls the ball to prevent the batter from hitting the pitch. What's your call(s)?
- Illegal pitch, immediate dead ball
 - Illegal pitch, delayed dead ball
 - Legal pitch
 - A warning on the first offense, then an illegal pitch thereafter
67. What must the pitcher do to legally remove herself from the pitching position?
- With her hands together, step sideways from the pitching plate
 - With her hands together, step backwards from the pitching plate
 - With her hands together, step forward from the pitching plate
 - With her hands separated, step forward from the pitching plate
68. How many revolutions of the arm is the pitcher allowed?
- .5
 - 1
 - 1.5
 - 2
69. A pitcher:
- must have both feet in contact with the pitching plate
 - need only have the pivot foot in contact with the pitching plate
 - must have at least half the pivot foot on the top surface of the pitching plate
 - must have the pivot foot on or partially on the surface of the pitching plate
 - must bring the hands together for not less than 1 second and more than 10 seconds before pitching
70. B1 complains that the pitcher is not coming to a complete stop before delivering the ball. What's your call(s)?
- The umpire may tell B1 he will watch closely to make sure the pitcher is not violating the rule
 - The pitcher is not required to come to a complete stop
 - The pitcher is required to come to a complete stop
71. R1 is on 1st base with two outs. B4 bats with two strikes. F1 commits an illegal pitch but delivers the ball. B4 singles to right field and F9 throws R1 out at 3rd base. What's your call(s)?
- The coach of the team at bat may elect to take the penalty for the illegal pitch
 - The play stands and the inning is over
 - Because R1 and B4 advanced at least one base, the illegal pitch is nullified
72. With R1 on 2nd base, it is time for B3 to bat but B4 erroneously bats. The appeal of the batting out of order infraction before the next pitch is the responsibility of whom?
- Offense
 - Defense
 - Umpire
73. After the improper batter completes her turn at bat, the defensive team properly appeals batting out of

- order. What's your call(s)?
- a. The proper batter is declared out by rule
 - b. The improper batter is declared out by rule
 - c. Any outs made on runners other than the improper batter-runner stands
 - d. Any out made on runners and the improper batter-runner stands
 - e. Any score or advance made as a direct result of the improper batter's actions are nullified
74. R1 is on 3rd base, R2 is on 2nd base and R3 is on 1st base with no outs. It's B4's turn to bat but B5 erroneously bats. B5 hits a ground ball to F6 who turns a 6-4-3 double play with R3 out at 2nd and B5 at 1st. The defensive team appeals batting out of order. What's your call(s)?
- a. The out on R3 stands
 - b. B4 is out for failing to bat in the proper order
 - c. R1 is returned to 3rd and R2 is returned to 2nd
 - d. B5 is removed from base
 - e. Play resumes with two outs
75. R1 is on 1st base when the ball rolls away from F2. F2 recovers the ball with her mask and R1 does not advance on the play. What's your call(s)?
- a. R1 is always awarded 2nd base
 - b. R1 is awarded 2nd base only if a play is apparent
 - c. R1 is not awarded 2nd base if no play is apparent
 - d. R1 is awarded 3rd base
 - e. No infraction has occurred
76. R1 is on 1st base with no outs when B2 hits for extra bases. R1 suddenly stops between 2nd and 3rd and B2 accidentally passes R1. What's your call(s)?
- a. R1 is out the instant she is passed
 - b. B2 is out if she completely passes R1
 - c. The ball is dead immediately
 - d. The ball remains live
 - e. There is no penalty if they correct their running order before reaching 3rd base
77. What's your call(s) when a runner passes a runner?
- a. The following runner is out only if she completely overtakes the preceding runner
 - b. The ball is delayed dead when a runner passes another runner
 - c. The ball is immediately when a runner passes another runner
 - d. The ball always remains live when a runner passes another runner
 - e. If a preceding runner passes a succeeding runner the succeeding runner is out
78. R1 is on 2nd base and R2 is on 1st base with no outs. B3 hits an infield fly that's properly declared by the umpires. However, the ball deflects off F6's glove and bounds into dead ball territory. What's your call(s)?
- a. B3 is out and R1 & R2 are awarded 1 base from the time of the pitch
 - b. B3 is out and R1 & R2 are awarded 2 bases from the time of the pitch
 - c. B3 is not out and R1 & R2 are awarded 2 bases from the time the ball goes into dead ball territory
 - d. B3 is out and R1 & R2 are returned to the base at the time of the pitch

79. At what point is the runner allowed to leave her base?
- At any time while the pitcher has the ball
 - As the pitcher starts her wind-up
 - As the pitcher releases the ball
 - As the ball crosses the plate
80. A batted ball contacts a runner before it touches or passes an infielder, while she is off the base. What's your call(s)?
- Live ball, play continues
 - Dead ball, runner is out, award the batter-runner 1st base
 - Dead ball, the batter-runner is out, award the runner 2nd base
 - Dead ball, award all runners two bases
81. R1 is on 2nd base with one out. B3 hits a long fly ball to center field. R1 tags at 2nd base but leaves the base before F8 makes the catch and advances to 3rd base. After F8 makes the catch, she throws the ball to F4 who is standing on 2nd base. F4 requests and is granted time-out and subsequently throws the ball back to F1 in the 16-foot circle. What's your call(s)?
- The accidental contact with the bag is considered a live ball appeal. R1 is declared out
 - The accidental contact with the bag is not considered a live ball appeal and nothing is declared
 - The umpire at the end of live ball play automatically declares R1 out
 - Dead ball is called and R1 is immediately declared out
82. The visitors lead 6-5, as the home team bats in the last half of the seventh inning. R1 occupies 3rd base and R3 is on 1st base with one out when B4 bats. R3 breaks with the pitch as B4 hits a fly ball to F8 for the second out. R1 leaves 3rd base before F8 first touches the caught fly ball as F8 throws to 1st base to play on R3. The base umpire calls R3 out on a close play for the third out after R1 touches home plate. The defensive team then runs off the field. What's your call(s)?
- The home team has tied the game.
 - R1's run does not count because the third out of the inning was a force out.
 - The plate umpire should have announced that R1's run scored.
 - Prior to leaving the field, the defensive team could have appealed that R1 left 3rd base before the caught ball was first touched.
 - On a proper fourth out appeal, the fourth out will replace the third out.
83. R1 from 3rd base and R3 from 1st base are both standing off base after the ball has been returned to F1 in the circle. Neither R1 nor R3 immediately move one way or the other. What's your call(s)?
- Call nothing as no violation has occurred
 - Call both R1 and R3 out.
 - Call either R1 or R3 out based on who violated first
 - The ball is dead
 - The ball is live
84. R1 is on 1st base with no outs when B2 hits for extra bases. B2 passes R1 between 2nd and 3rd base when R1 becomes confused. What's your call(s)?
- R1 is out
 - B2 is out
 - The ball is live
 - The ball is dead immediately
 - For a violation to occur, B2 must completely pass R1

85. R1 is on 3rd base, R2 is on 2nd base and R3 is on 1st base with two outs. B6 walks, but over zealous R3 from 1st base is tagged out after touching 2nd base but before B6 reaches 1st base. What's you call(s)?
- The out on R3 stands
 - The out on R3 is nullified
 - R1's run counts because it was an awarded base
 - R1's run does not count
86. Bases loaded with two outs. B6 hits a home run over the fence but misses 2nd base. At the conclusion of the play, the defensive team makes a proper appeal that B6 missed 2nd base. What's your call(s)?
- The umpire will declare B6 out
 - Four runs will score
 - Three runs will score
 - Two runs will score
 - No runs will score because of the force play
87. R1 is on 1st base with no outs when B2 hits a ground ball deep to short. F6's throw to 2nd base barely nips R1. The coach of the team at bat leaves the dugout, goes to the foul line and angrily waves to the base umpire to come over to discuss the play. What should you do?
- The base umpire should run to the manager's position and accept his admonishment
 - The base umpire, after making the out call, should ignore the manager and ready himself for the next play or pitch
 - The plate umpire should ignore the manager because the complaint isn't directed towards him
 - The plate umpire should approach the manager and tell him to either request time and go out and discuss the play with the base umpire or return to the dugout
88. Which umpire(s) is/are responsible for calling balls and strikes?
- Base umpire
 - Plate umpire
 - Both umpires
89. Which umpire(s) shall call time if necessary?
- Base umpire
 - Plate umpire
 - Both umpires
90. B1 hits a slow ground ball to F5. B1 beats the throw to 1st base but misses the bag. F3 then catches the ball while in contact with 1st base. What's your call(s)?
- B1 is out
 - B1 is safe
 - B1 is considered to have touched 1st base unless the defensive team makes a proper appeal before B1 returns to 1st base

Short Answer

Briefly answer each question on the space provided.

91. How high can a ball go to be a foul tip?
92. Does the entire ball have to pass through the strike zone in flight for the pitch to be called a strike?

93. F7 and F8 are chasing a long fly ball to left-center field when they collide. Both players are knocked to the ground, but F8 is apparently unconscious for a few minutes. F8 insists she is not injured and wishes to remain in the game. What's your call?
94. What are the rules regarding re-entry? Who is restricted from re-entering and under what circumstances?
95. B1 hits a single to center field but accidentally releases her bat, which strikes F2. What's your call?
96. R2 is on 2nd base with a count of 1-1 on B3. F1 commits but delivers an illegal pitch. B3 steps on the plate and hits a foul ball. What's the call?
97. With one out, B2 bats with a 1-2 count. B2 swings and tick the ball directly off F2's chest protector. F2 then grabs the ball with her throwing hand before the ball touches the ground. What's your call?
98. R1 is on 1st base when B2 hits safely to right field. R1 advances to 3rd standing up and is barely safe on a strong throw to F5 by F9. When F5 applies a tag on an off-balance R1, R1 loses contact with the base. What's your call?
99. R2 is on 2nd base with two outs. B4 hits a ground ball to F6. R2 jumps over the ball and F6 is distracted by R2's jump and misplay the ball. Is R2 guilty of interference?
100. R2 is on 2nd base with one out when B3 hits a ground ball to F6. R2 runs well behind F6 on her way to 3rd base as F6 whirls and fires to 3rd base. R2 is safe at 3rd base but the defensive coach contends that R2 is out for running out of the baseline. What's your call?

**CALIFORNIA SOFTBALL OFFICIALS ASSOCIATION
STUDY GUIDE ANSWER SHEET 2009**

Darken "A" for True and "B" for False.

True/False

- | | | |
|-------------------|-------------------|-------------------|
| 1. (A) (B) _____ | 15. (A) (B) _____ | 28. (A) (B) _____ |
| 2. (A) (B) _____ | 16. (A) (B) _____ | 29. (A) (B) _____ |
| 3. (A) (B) _____ | 17. (A) (B) _____ | 30. (A) (B) _____ |
| 4. (A) (B) _____ | 18. (A) (B) _____ | 31. (A) (B) _____ |
| 5. (A) (B) _____ | 19. (A) (B) _____ | 32. (A) (B) _____ |
| 6. (A) (B) _____ | 20. (A) (B) _____ | 33. (A) (B) _____ |
| 7. (A) (B) _____ | 21. (A) (B) _____ | 34. (A) (B) _____ |
| 8. (A) (B) _____ | 22. (A) (B) _____ | 35. (A) (B) _____ |
| 9. (A) (B) _____ | 23. (A) (B) _____ | 36. (A) (B) _____ |
| 10. (A) (B) _____ | 24. (A) (B) _____ | 37. (A) (B) _____ |
| 11. (A) (B) _____ | 25. (A) (B) _____ | 38. (A) (B) _____ |
| 12. (A) (B) _____ | 26. (A) (B) _____ | 39. (A) (B) _____ |
| 13. (A) (B) _____ | 27. (A) (B) _____ | 40. (A) (B) _____ |
| 14. (A) (B) _____ | | |

Multiple Choice

- | | |
|-------------------------------|-------------------------------|
| 41. (A) (B) (C) (D) (E) _____ | 58. (A) (B) (C) (D) (E) _____ |
| 42. (A) (B) (C) (D) (E) _____ | 59. (A) (B) (C) (D) (E) _____ |
| 43. (A) (B) (C) (D) (E) _____ | 60. (A) (B) (C) (D) (E) _____ |
| 44. (A) (B) (C) (D) (E) _____ | 61. (A) (B) (C) (D) (E) _____ |
| 45. (A) (B) (C) (D) (E) _____ | 62. (A) (B) (C) (D) (E) _____ |
| 46. (A) (B) (C) (D) (E) _____ | 63. (A) (B) (C) (D) (E) _____ |
| 47. (A) (B) (C) (D) (E) _____ | 64. (A) (B) (C) (D) (E) _____ |
| 48. (A) (B) (C) (D) (E) _____ | 65. (A) (B) (C) (D) (E) _____ |
| 49. (A) (B) (C) (D) (E) _____ | 66. (A) (B) (C) (D) (E) _____ |
| 50. (A) (B) (C) (D) (E) _____ | 68. (A) (B) (C) (D) (E) _____ |
| 51. (A) (B) (C) (D) (E) _____ | 69. (A) (B) (C) (D) (E) _____ |
| 52. (A) (B) (C) (D) (E) _____ | 70. (A) (B) (C) (D) (E) _____ |
| 53. (A) (B) (C) (D) (E) _____ | 71. (A) (B) (C) (D) (E) _____ |
| 54. (A) (B) (C) (D) (E) _____ | 72. (A) (B) (C) (D) (E) _____ |
| 55. (A) (B) (C) (D) (E) _____ | 73. (A) (B) (C) (D) (E) _____ |
| 56. (A) (B) (C) (D) (E) _____ | 74. (A) (B) (C) (D) (E) _____ |
| 57. (A) (B) (C) (D) (E) _____ | 75. (A) (B) (C) (D) (E) _____ |

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| 76. (A) (B) (C) (D) (E) _____ | 84. (A) (B) (C) (D) (E) _____ |
| 77. (A) (B) (C) (D) (E) _____ | 85. (A) (B) (C) (D) (E) _____ |
| 78. (A) (B) (C) (D) (E) _____ | 86. (A) (B) (C) (D) (E) _____ |
| 79. (A) (B) (C) (D) (E) _____ | 87. (A) (B) (C) (D) (E) _____ |
| 80. (A) (B) (C) (D) (E) _____ | 88. (A) (B) (C) (D) (E) _____ |
| 81. (A) (B) (C) (D) (E) _____ | 89. (A) (B) (C) (D) (E) _____ |
| 82. (A) (B) (C) (D) (E) _____ | 90. (A) (B) (C) (D) (E) _____ |
| 83. (A) (B) (C) (D) (E) _____ | |

Short Answer

91. _____

92. _____

93. _____

94. _____

95. _____

96. _____

97. _____

98. _____

99. _____

100. _____

