

REQB<sup>®</sup>  
Agile Practitioner  
Sample Exam paper



Requirements  
**Engineering**  
Qualifications Board

**1 Consider the following statements about possible values for development process:**

- I. Customer collaboration over following a plan**
- II. Individuals and interactions over comprehensive documentation**
- III. Working software over processes and tools**
- IV. Responding to change over contract negotiation**

**Which are agile values emphasized in the Agile Manifesto? (1,00 P.)**

- [A] None of the answers is correct
- [B] I, III, IV
- [C] I, III
- [D] II, IV

**2 Which one of the following properties is part of Scrum agile method? (1,00 P.)**

- [A] An incremental framework for projects and product that allows releasing its deliverables item by item, based on lean principles.
- [B] Inspections of both the resulting product and the efficacy of the current practices, and then adaptations to the product goals and process practices.
- [C] Programmers work in pairs, following strict coding standards.
- [D] Every day team briefly gathering to report to project management on progress and updating of simple charts that orient them to the remaining work.

**3 Which one of the following properties is the BEST approach of an agile team? (1,00 P.)**

- [A] The team involves only requirement analyst and business representative
- [B] The testers are responsible for quality
- [C] Business representatives work closely with both developers and testers
- [D] The team encourages the acquisition of very specialized skills in each member

**4 Which of the following statements about user stories is NOT true? (1,00 P.)**

- [A] User stories are usually refined during release planning and iteration planning.
- [B] User stories may be written by developers
- [C] Larger user stories are sometimes called "epics"
- [D] User stories capture the 'who', 'what' and 'why' of a requirement in a simple, concise way

**5 Which one of the following statements is a benefits of early and frequent feedback? (1,00 P.)**

- [A] Through frequent feedback, the Agile Team discusses how to improve its practices.
- [B] Frequent customer feedbacks allow to reduce the number of tests in case of time constraints.
- [C] Early feedback avoids requirements misunderstandings that may not have been detected until later in the development cycle when they are more expensive to fix.
- [D] Early and frequent feedback helps in identifying changes to user stories so that the iteration goal can be changed before the iteration ends.

**6 Which of the following statements is NOT true regarding retrospectives? (1,00 P.)**

- [A] The retrospective recordings and follow-ups allow the team to transfer the achieved experiences.
- [B] The Product Owner typically facilitates the retrospective.
- [C] The Scrum Master typically facilitates the retrospective.
- [D] All team members are asked to attend the retrospective.

**7 Considering the Agile Requirements Engineering workflow, which level produces the Product Backlog and the Sprint Backlog? (1,00 P.)**

- [A] The Business level produces both Backlogs
- [B] The Program level produces both Backlogs
- [C] The Team level produces both Backlogs
- [D] The Program level produces the Product Backlog and the Team level produces the Sprint Backlog.

**8 Consider the following levels of the Agile Requirements Engineering workflow:**

- I. Business level
- II. Program level
- III. Team level

**Consider also the following statements associated to them:**

1. At this level, the company's product portfolio is managed.
2. At this level, the work is divided into tasks and proceeds through a series of iterations and releases.
3. The business themes at this level declare the problems that are input to the requirements engineering process.
4. At this level, the development of larger-scale systems functionality is accomplished via a standard cadence of time-boxed (1-to-4 weeks) iterations and milestones that are date-and-quality-fixed, but variable in scope.

**Which of the following combinations BEST matches each level of the Agile Requirements Engineering workflow with the appropriate statement? (1,00 P.)**

- [A] I-1, I-3, II-4, III-2
- [B] I-1, II-2, II-3, III-4
- [C] I-3, II-1, III-2, III-4
- [D] I-3, II-1, II-4, III-2

**9 Which one of the following statements about the main attributes of requirements in Agile software development is true? (1,00 P.)**

- [A] The key objective of requirements evaluation is to estimate the business value using the mandatory attributes Commitment, Priority and Criticality.
- [B] The priority never has to be balanced against the cost of implementation and testing.
- [C] Criticality is usually assigned at business level concerning the business themes.
- [D] In Agile, the corresponding attribute of the priority, which expresses "how much the requirement is requested by a customer or a specific market", is only the customer priority that emphasizes the customer view of the urgency to complete the item.

**10 Which of the following is NOT one of the INVEST criteria for user stories? (1,00 P.)**

- [A] The user story must be refined in such a way that it's possible to deliver potentially shippable increments at each iteration.
- [B] User stories, up until they are part of an iteration, can always be changed and rewritten.
- [C] A user story must deliver value to the end user.
- [D] The user story or its related description must provide the necessary information to make test development possible.

**11 Which of the following statements is NOT true in agile requirements engineering? (1,00 P.)**

- [A] Requirements Engineering can be defined as a sub-discipline of System Engineering, focused on determining, developing and managing the requirements of software systems.
- [B] Requirements Engineering encompasses Requirements Management and Requirements Development.
- [C] The general definition of Requirements Engineering that is provided for traditional software engineering is different from the general definition that is provided when working in Agile software engineering.
- [D] Written documents are no longer the primary tool for requirements specification, but can be a useful support tool to be used only when the Team identifies a real need.

**12 Which one of the following is LEAST problematic when adopting agile development? (1,00 P.)**

- [A] List of prioritized low level requirements.
- [B] Detailed schedule of development.
- [C] Detailed description of the planned solution.
- [D] Acceptance criteria for each requirement.

**13 As the Product Owner of a new online booking application for your next Requirements Workshop the following stakeholders confirmed their participation:**

- **An operator of the application, that works for one of your reference customer**
- **The responsible for the configuration control system**
- **The development team leader of the booking engine that the new online booking application must interface**
- **A product manager that has interest in the budget and schedule**
- **The technical manager of the help desk staff of your company**
- **A financial governance manager**

**Which one of the following statements is TRUE about the combination of stakeholders that confirmed their participation? (1,00 P.)**

- [A] More system stakeholders confirmed their participation than project stakeholders
- [B] More project stakeholders confirmed their participation than system stakeholders
- [C] The same number of project stakeholders and system stakeholders confirmed their participation
- [D] All stakeholders that confirmed their participation are system stakeholders

**14 Your company is looking for the new Product Owner of a project that has reached its third iteration. The former Product Owner has resigned. The company is searching for people who has at least two years' experience as Product Owner and who received a dedicated training within the area. The skills requested to the new Product Owner are:**

- **Excellent communication skills**
- **Proven facilitating skills**
- **Previous experience of product management in the same business area**
- **Proven ability to make decisions**
- **Trustworthiness**

**Which of the following is MORE LIKELY a skill that should be added to the profile of the Product Owner in this case? (1,00 P.)**

- [A] Good technical knowledge of the system/product domain
- [B] Excellent knowledge of spreadsheets
- [C] Strong experience in team management
- [D] Proven experience in managing retrospectives

**15 Which one of the following statements is true? (1,00 P.)**

- [A] In the requirements engineering process an Agile Team understands, thanks to the contribution of the scrum master, the origin, content and rationale of a requirement
- [B] In the requirements engineering process an Agile Team identifies the priorities related to all the requirement
- [C] In the requirements engineering process an Agile Team provides at first an estimate of the effort, for each user story
- [D] In the requirements engineering process an Agile Team identifies the risks associated specifically with the technical aspects

**16 Which of the following is NOT a typical activity of the Scrum Master? (1,00 P.)**

- [A] Eliminates impediments that the team members are not able to solve by themselves
- [B] Helps the team pooling the knowledge and experience of all members to refine, assess, and divide each user story into elementary tasks for the implementation and testing
- [C] Manages and controls the sprint backlog
- [D] Sets the priority of the user stories

**17 Which one of the following purposes concerns Requirements Elicitation? (1,00 P.)**

- [A] Collecting requirements from the Agile Team and, based on the initial scope definition and business needs, formulating infrastructure requirements
- [B] Orientating the requirements toward the business and project vision
- [C] Detailing all high-level requirements and refining them to create a set of INVEST user stories that are ready to be planned in the next iterations
- [D] Including functions and features that the customer could appreciate, in order to gain competitive advantage

- 18 The Product Owner of a new scrum project sends the invitation to the requirements workshop that he will drive and that is planned next week. The invited participants are:**
- Representatives of the project sponsors
  - A business analyst
  - A system architect
  - A product line manager
  - An IT manager
  - A sales representative
  - A marketing representative
  - An external consultant who is an expert on mobile platforms and will contribute to the project during the requirements elicitation and initial analysis
  - A program manager

In your opinion who is **AT LEAST** missing in the above list to have a well-represented requirements workshop? (1,00 P.)

- [A] Lack of traceability.
- [B] Inconsistency.
- [C] Thinking in solutions.
- [D] Lack of measurability.

- 19 Which one of the following characteristics in a contract is MORE LIKELY to reduce the benefits of agile development? (1,00 P.)**

- [A] A description of technical solutions in the contract.
- [B] A list of prioritized requirements that is negotiable and can be adapted to changing needs in agreement with the customer.
- [C] Acceptance based on conformance to the Definition of Done that includes the mandatory use of test automation.
- [D] A list of deliverables that are truly necessary to the customer, with an explanation of the need for which they are requested.

- 20 Which one of the following statements regarding non-functional requirements is MOST appropriate in agile requirements engineering? (1,00 P.)**

- [A] Non-functional requirements should always be written in the form of a user story
- [B] Non-functional requirements can be written in the form of a user story
- [C] Non-functional requirements should never be written in the form of a user story
- [D] Non-functional requirements should always be written in the form of a use case

- 21 In which one of the following situations would you expect to require a functional spike? (1,00 P.)**

- [A] An analysis workshop highlighted the need to check whether it is better to use a platform library rather than an open-source library that is declared to carry out the same functions with better security.
- [B] A grooming workshop highlighted the need to verify that the tools available to implement the test automation for the verification of certain non-functional requirements are adequate; this before including the same requirements in a subsequent sprint.
- [C] An analysis task shows that the mode of interaction of the user with the system for a given operation is not clear. It is necessary to verify at user persona level.
- [D] During a task in performance testing it appears that there are two possible approaches to verify the performance of the system, one of which may allow tests to run in much less time.

**22 Which one of the following statements is true about an implementation story? (1,00 P.)**

- [A] An Implementation story describes requirements with low business value, but are important.
- [B] An implementation story never has a size estimation assigned.
- [C] An implementation story is never written in form of user story.
- [D] An example of implementation story is the one that describes how to set up the defect tracking environment.

**23 Within an agile context, who is involved in the requirements acceptance? (1,00 P.)**

- [A] The whole Team and the quality assurance function
- [B] Only the testers
- [C] The whole Team together with dedicated testers that are not part of the Team
- [D] The whole Team, the Product Owner and all the involved stakeholders

**24 Which one of the following is NOT a typical task of the Product Owner (PO) in preparation of the Sprint Planning Workshop? (1,00 P.)**

- [A] The PO discusses the product vision with the business analyst and with the product management colleagues in order to approve it.
- [B] The PO prepares the agenda, the objectives of the workshop, the rules to be followed and the tools to use in the workshop.
- [C] Based on the content of the product backlog, the PO identifies potential stakeholders to be involved in the workshop. Sends the invitation to those stakeholders and asks to appoint substitutes in case of impossibility to attend.
- [D] The PO extracts, from the contents of the product backlog, the user stories with the highest priority and that form together a reasonable goal of Sprint, to propose to the Scrum Team. Prepares one or two alternatives about the Sprint goal.

- 25 The development Team is evaluating a user story at the end of an analysis workshop in order to understand if the user story, that is candidate for the next 4-weeks sprint, reached the INVEST status. The user story is:

“As the owner of the application, I want that new users that are creating an account, are driven in choosing secure passwords so that we can ensure a high level of the security of all the accounts.”

To fulfill the 3C criteria some rules have been specified and the related acceptance criteria have been defined, like the following examples:

*Given* a user is creating an account  
*When* he/she specifies a password that fulfills all of the rules  
*Then* the password is valid

*Given* a user is creating an account  
*When* he/she specifies a password that breaks more than one of the 5 rules  
*Then* the password is invalid  
*And* the message "Password must be at least 8 characters long and contains at least:  
 - a lower case alphabet character  
 - a upper case alphabet character  
 - a number  
 - a special character (!,@,#,\$,%,&,\*)" is displayed

*Given* a user is creating an account  
*When* he/she specifies a password that fulfills all of the rules but Rule1  
*Then* the password is invalid  
*And* the message "Password must be at least 8 characters long" is displayed

*Given* a user is creating an account  
*When* he/she specifies a password that fulfills all of the rules but Rule5  
*Then* the password is invalid  
*And* the message "Password must contain at least one special character (!,@,#,\$,%,&,\*)" is displayed

Is this an INVEST user story? (1,00 P.)

- [A] No, because the user story is not estimable
- [B] No, because the user story is not sized appropriately
- [C] No, because the user story is not testable
- [D] Yes, this is an INVEST user story

- 26 Which one of the following statements is true concerning the assignment of conditions of satisfaction to refined user stories? (1,00 P.)

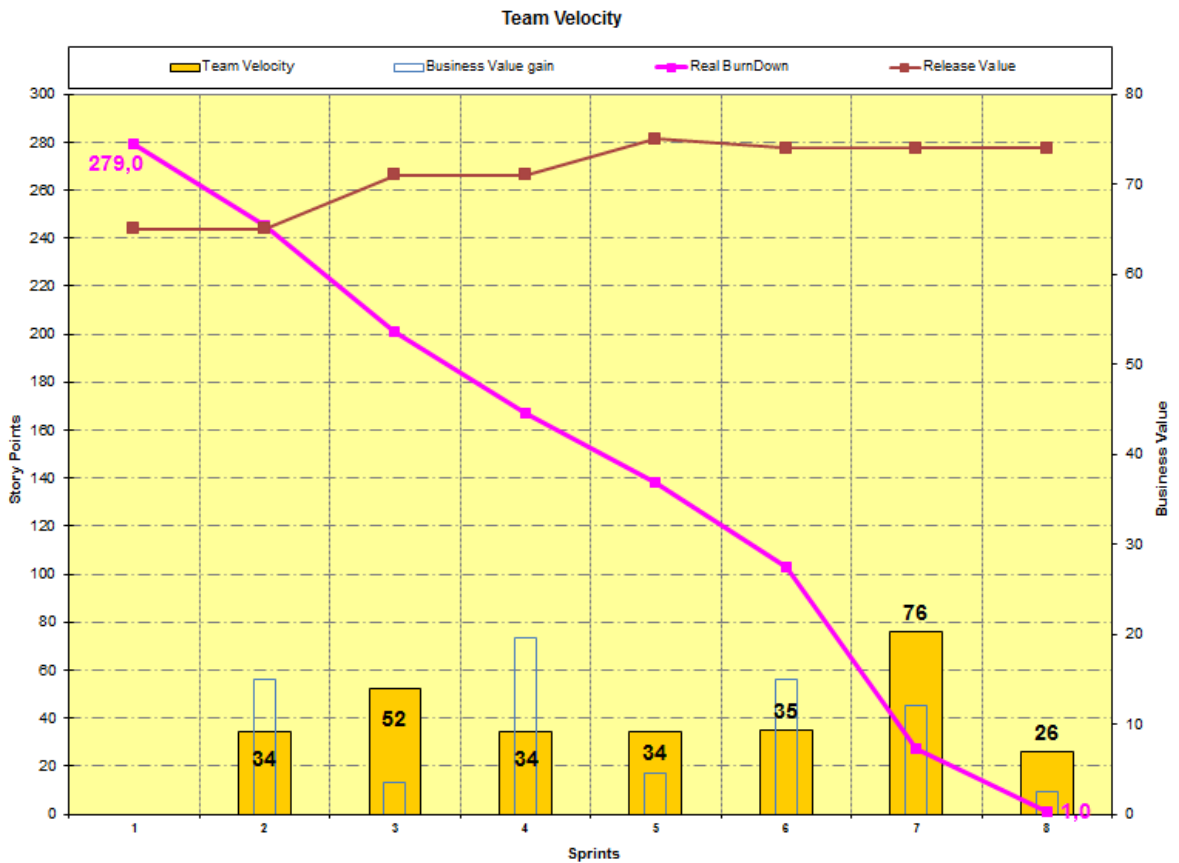
- [A] The conditions of satisfaction should include the criteria that must not be satisfied, because they are not required.
- [B] The conditions of satisfaction should be defined after a user story reached INVEST properties.
- [C] Conditions of satisfaction are also called acceptance tests.
- [D] The assignment of conditions of satisfaction to refined user stories is done after the sprint review and collects the results under which the user stories have been verified against the sprint goal.



- 27 An agile organization centralizes the user experience design through a dedicated team that acts as an authority and provides the basic design standards for each UI. In which way should this authority provide its contribution to the scrum teams? (1,00 P.)**
- [A] The authority should provide a set of written specifications about HTML designs, CSS style sheets, mock-ups, usability and other guidelines. The teams should follow these specifications for the UI design of their user stories.
  - [B] Conduct user experience story spikes that can be used to develop alternative user interfaces and provide the results to the scrum teams.
  - [C] Scrum Teams will have team-based UI implementation experts for the implementation that are sourced from the centralized authority team.
  - [D] Only the authority should take care about interfacing the customer to get all information concerning the user experience.
- 28 Which one of the following statements regarding the Sprint Review is NOT true? (1,00 P.)**
- [A] The teams have the ownership of the meeting, and show what they accomplished during the sprint.
  - [B] The Sprint Review is the final event of each sprint.
  - [C] The only objective of the Sprint Review is the verdict of the Product Owner concerning the sprint goal achievement.
  - [D] The produced increment runs in the real environment, no presentation slides should be used.
- 29 When several teams are working in the same project, which one of the following is a frequent practice to organize retrospectives at the end of an iteration? (1,00 P.)**
- [A] All team members of all teams always attend the complete retrospective.
  - [B] It is useful to have the first part of the retrospective where each single team meets together, then a second part where all teams can sit together (maybe involving just team representatives) to discuss common issues, sometimes with the product owner.
  - [C] It is useful to have the first part of the retrospective where all teams can sit together (maybe involving just team representatives) to identify common issues, sometimes with the product owner, then a second part of the retrospective where each single team meets all together, to discuss specific issues.
  - [D] Only representatives of all teams always attend the complete retrospective.
- 30 During the requirements workshop, the participants estimated the business value of an important feature of the product they're working on. During the analysis workshop that followed the same feature has been refined in several detailed user stories. The group that made the user story refinement pointed out that the user stories can be carried out in any order, but there is no real business value until the last user story is "Done". How will the Product Owner assign the business value to each user story? (1,00 P.)**
- [A] The Product Owner will assign the same business value of the original feature to all the user stories.
  - [B] The Product Owner will assign zero business value to all the user stories but the last one that will be assigned the same business value as the original feature.
  - [C] The business value of the original feature must be spread among the refined user stories, keeping the sum as the initial value of the original feature.
  - [D] The business value will not be assigned to the user stories.

- 31 Which one of the following risks can be considered a product risk in agile context? (1,00 P.)**
- [A] Low experience of the product owner and the Scrum Master
  - [B] Cross-functional areas not covered adequately by the team
  - [C] Components developed by a third party are not delivered on time
  - [D] No participation from the stakeholders in the sprint review
- 32 Which one of the following is NOT an artifact that supports the requirements traceability in agile projects? (1,00 P.)**
- [A] The product backlog
  - [B] The sprint backlog with the task board
  - [C] The requirements traceability matrix
  - [D] The release burndown
- 33 Which one of the following statements about agile change management is true? (1,00 P.)**
- [A] Changes in agile projects have no impact in the planning
  - [B] If Change Requests are used then a Change Control Board is necessary
  - [C] Including a change in the backlog could imply the infeasibility of another backlog item being implemented in time for the release
  - [D] Including a change in the backlog automatically implies removing another backlog item being implemented in time for the release
- 34 Which one of the following factors regarding your agile project will LESS LIKELY influence the quality of your requirements engineering process? (1,00 P.)**
- [A] Insufficient personnel experience, skills and competency.
  - [B] Frequent new regulations about safety and environmental factors affecting the product.
  - [C] Insufficient involvement of users and/or business stakeholders
  - [D] Lack of knowledge of technologies requested by the customer
- 35 Which one of the following rules could MORE LIKELY be a key criterion to establish the set of metrics to use after the iteration one of a Scrum project? (1,00 P.)**
- [A] The set of metrics that were used at the end of a recent similar project.
  - [B] The set of metrics necessary to track impediments that are encountered, and improvements identified and to be introduced.
  - [C] A set of metrics that is listed into the approved quality manual referring to the first iteration of a generic project.
  - [D] The result of a dedicated retrospective conducted with the involved stakeholders in order to understand the benefits and drawbacks of the used metrics.

36 Consider the following burndown chart including velocity values and where the release value is the total business value of the release:



Which one of the following statements is **NOT** appearing in this chart? (1,00 P.)

- [A] User stories have been added or removed in the middle of the iterations.
- [B] The value delivered at each sprint was not ideal.
- [C] The team is in average able to complete (done) 35 story point per sprint.
- [D] The user stories to be included in the release or the business conditions for the evaluation of the value of the user stories changed during the release.

37 In which of the following situations is it **NOT** necessary to use the parking lot? (1,00 P.)

- [A] Presenting the change password procedure to the stakeholders during a sprint review, one of them says that the unforeseen control about the not-repetition of one of the last five password should be added.
- [B] During the ongoing analysis workshop someone realizes that a communication feature could need a new driver to run on a specific platform and that the necessity of a spike has to be investigated with the platform expert who is not available today.
- [C] During a daily scrum a team member reports that completing the implementation of a data conversion function, it appeared that it will be free to add another data conversion function that could be very helpful for the customer, and wants to inform the Product Owner.
- [D] During the retrospective the team agreed that the new tool for defect tracking, which was successfully experimented during last sprint, will be immediately used.

**38 You're doing a workshop for assigning the business value to the requirements. You're using the planning poker. What should you NOT do when this procedure results in a large discrepancy between the higher and the lower estimate? (1,00 P.)**

- [A] The average between the higher vote and the lower vote is calculated. The estimated value is assigned based on this average and the next requirement is put to the vote.
- [B] When only one value differs from the others, who provided this value explains the reasons. Afterwards, the participants vote again.
- [C] People providing higher estimate and lower estimate offer their justification for their values and then the participants discuss the differences and tries to build a common picture regarding the value. Afterwards, the participants vote again.
- [D] When more than one vote is done and no common agreement is reachable, the most voted value is chosen.

**39 What is a timebox in agile requirements engineering? (1,00 P.)**

- [A] Timebox is a sequence of 30-minute increments, during which the Team works steadily toward completion of some goal for 25 minutes, than takes five minutes break.
- [B] Timebox is the deadline of the release, defined on time to market constraints.
- [C] Timebox is a previously agreed period of time during which a person or a Team works steadily toward completion of some goal, stopping work when the time limit is reached and evaluating what has been accomplished.
- [D] Timebox is the 15-minutes limit within which you have to complete the daily standup meeting.

**40 Which one of the following is LESS LIKELY a key factor when selecting a tool for Agile requirements engineering?**

- [A] Choose the most suitable tool in order to reduce the amount of work, and make things simpler.
- [B] Choose the most suitable tool in order to make the results available regarding the discussions and conversations about requirements in a simple, shared and understandable way for everyone.
- [C] Choose the most suitable tool in order to facilitate remote workshops without the need of face to face communication.
- [D] Choose the most suitable tool that fit well with your working practices that proved to be effective.

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

**SOLUTIONS**

1.	<del>A</del>	B	C	D															
4.	<del>A</del>	B	C	D															
7.	A	B	C	<del>D</del>															
10.	<del>A</del>	B	C	D															
13.	A	B	<del>C</del>	D															
16.	A	B	C	<del>D</del>															
19.	<del>A</del>	B	C	D															
22.	<del>A</del>	B	C	D															
25.	A	B	C	<del>D</del>															
28.	A	B	<del>C</del>	D															
31.	A	B	C	<del>D</del>															
34.	A	<del>B</del>	C	D															
37.	A	B	C	<del>D</del>															
40.	A	B	<del>C</del>	D															
2.	A	<del>B</del>	C	D															
5.	A	B	<del>C</del>	D															
8.	<del>A</del>	B	C	D															
11.	A	B	<del>C</del>	D															
14.	<del>A</del>	B	C	D															
17.	A	<del>B</del>	C	D															
20.	A	<del>B</del>	C	D															
23.	A	B	C	<del>D</del>															
26.	<del>A</del>	B	C	D															
29.	A	<del>B</del>	C	D															
32.	A	B	C	<del>D</del>															
35.	A	B	C	<del>D</del>															
38.	<del>A</del>	B	C	D															
3.	A	B	<del>C</del>	D															
6.	A	<del>B</del>	C	D															
9.	<del>A</del>	B	C	D															
12.	A	<del>B</del>	C	D															
15.	A	B	C	<del>D</del>															
18.	A	B	<del>C</del>	D															
21.	A	B	<del>C</del>	D															
24.	<del>A</del>	B	C	D															
27.	A	B	<del>C</del>	D															
30.	A	<del>B</del>	C	D															
33.	A	B	<del>C</del>	D															
36.	<del>A</del>	B	C	D															
39.	A	B	<del>C</del>	D															