

| Q# | 1. LOK (F/H) | 2. LOD (1-5) | 3. Psychometric Flaws | | | | | 4. Job Content Flaws | | | | 5. Other | | 6. B/M/N | 7. U/E/S | 8. Explanation | |
|----|--------------|--------------|-----------------------|------|-----|-------------|---------|----------------------|---------|---------|----------|----------|----------|----------|----------|----------------|--|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Backward | Q=K/A | SRO Only | | | | |
| | | | | | | | | | | | | | | | | | General comments for submittal <ul style="list-style-type: none"> Use of “no change,” “no action required,” or “nothing happens” is generally not plausible. If a “no change” is the correct answer, it is viewed by the applicant as a trick question, if it is a distractor then it is not credible. See detailed discussions on each question. There are a lot of questions that deal with train separation (power supplies, valves, pumps, etc) and this is a good Tier 3 question to ask once, but not a specific design feature to ask for each and every system and the plant because this is a general design criterion for every nuclear plant in the country and has minimal discriminatory value for the DC specific license. Anyone with basic knowledge of nuclear power plants can answer these questions but that doesn’t mean they should get a license to operate your facility). The NUREG SRO guidance states that you should not be able to answer SRO-only questions solely with RO knowledge (ie system knowledge) however there may be a KA where it is needed to hit at least part of the KA. |

Instructions

[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]

- Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.
- Enter the level of difficulty (LOD) of each question using a 1 B 5 (easy B difficult) rating scale (questions in the 2 B 4 range are acceptable).
- Check the appropriate box if a psychometric flaw is identified:
 - § The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).
 - § The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc).
 - § The answer choices are a collection of unrelated true/false statements.
 - § The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable.
 - § One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).
- Check the appropriate box if a job content error is identified:
 - § The question is not linked to the job requirements (i.e., the question has a valid K/A but, as written, is not operational in content).
 - § The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be known from memory).
 - § The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).
 - § The question requires reverse logic or application compared to the job requirements.
- Check questions that are sampled for conformance with the approved K/A and those that are *designated SRO-only* (K/A and license level mismatches are unacceptable).
- Enter question source: (B)ank, (M)odified, or (N)ew. Check that (M)odified questions meet criteria of ES-401 Section D.2.f.
- Based on the reviewer=s judgment, is the question as written (U)nsatisfactory (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?
- At a minimum, explain any AU@ ratings (e.g., how the Appendix B psychometric attributes are not being met).

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|----|--------------|--------------|-----------------------|------|-----|-------------|---------|----------------------|---------|---------|----------|----------|----------|----------|----------|--|
| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Backward | Q=K/A | SRO Only | | | |
| | | | | | | | | | | | | | | | | <p>However, using this aspect to introduce RO knowledge on more than one or two SRO-only questions reduces the answer choice to 50/50 and therefore is not only a bad practice but it can be argued that two non-credible distractors makes a question Unsat and LOD = 1.</p> <ul style="list-style-type: none"> • Attention to detail is poor on several of the questions wrt spelling and grammar errors. • Answer distribution is off. Need to balance it correctly on both SRO and RO sections of the exam. • Overall LOD is too low on this exam. Many questions are just too easy and not discriminating enough for the NRC exam. • Due to number of changes, for revision control the final submittal has been designated as Rev X. All questions have been changed to reflect Rev X. |
| 1 | H | 2 | | | | | | | | B | 41.7 | | | M | S | |
| 2 | H | 3 | | | | | | | | A | 41.7 | | | B | E S | <p>Disagree with modified designator. This is a bank question. Change correct answer to something other than D because the correct answer was D in the bank question. Rev 1 - What was changed in new revision?</p> <p>DCPP Comment – misunderstood intent of comment. Reordered answers and classified question as bank</p> <p>Question is now SAT.</p> |
| 3 | H | 3 | | X | | X | | | | B | 41.7 | | | N | E S | <p>Why is distractor A plausible because in cold leg recirc the water is coming from the sump so this valve is already open, right? Possible negative cueing with distractor C (hot leg supply valve) and cold leg recirc in the stem. Discuss.</p> <p>DCPP comment – no change at this time, possible change – make answers a matrix of valve positions to open the valve. <u>The hot leg valve referenced in the comment is part of the interlock (it is the supply valve to RHR)</u></p> <p>DC updated question to address cueing. Typos - 8804A or B? 8894B or 8804B? Typos fixed – question is now SAT.</p> |
| 4 | H | 2 | | | | X | | | | A | 41.7 | | | B | E | <p>Plausibility of distractor C and D are questionable as written. Remains the same is not credible with associated discussion in the explanation section because if I were guessing for an answer, 1-1 HX would logically go to loops 1 and 2 and 1-2 HX would</p> |

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| | | | Stem Focus | Cues | T/F | Cred. Dist. | Partial | Job-Link | Minutia | #/units | Backward | Q=K/A | SRO Only | | | |
| | | | | | | | | | | | | | | | | <p>go to loops 3 and 4. An applicant might think that flow remains the same because it has an accumulator on it and doesn't immediately fail open? This would be a better plausibility discussion for C.</p> <p>A better version of this question might be:</p> <p>A. Rise by approximately 1000 gpm and stabilize B. Lower to zero C. Rise until 1-2 pump runout occurs and the pump trips D. Remains the same</p> <p>Rev 1 - DC added mechanical stop variant to the question. Question is now SAT.</p> |
| 5 | H | 3 | | | | | | | | A | 41.7 | | | N | E S | <p>In explanation section 8807B is not the right valve number for this question-typo. Rev 1 – Fixed typo. Question is now SAT.</p> |
| 6 | H | 2 | | | | | | | | C | 41.7 | | | B | U S | <p>This is LOD=1 Not plausible to think SI Actuation reset if the 'SI Actuation' light was still ON. A 'NO' on the reset is clearly an 'ON' light which affects the two 'OFF' distracters.</p> <p>DCCP Comment – will discuss not sure understand comment. Answer is lights are ON. Both ON indicate one train has reset, and one has not. The OFFs are plausible if believed that either train will cause the alarm to reset. Normal response is 08-21 OFF and 08-22 ON. (distractor C)</p> <p>This is an LOD-1 question and needs to be replaced. It is not plausible to think that the SI actuation light would go off if only one train is reset.</p> <p>Question was rewritten and is now SAT.</p> |
| 7 | F | 3 | Past NRC Exam 01/2010 | | | | | | | C | 41.7 | | | B | S | |

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| 8 | H | 3 | | | | X | Past DCPN NRC Exam 07/2011 | A | 41.7 | | | B | <p>E</p> <p>In explanation section you should try to tie the KA of cause and effect better to ensure there is no misconception. On my first review I thought this was a KA mismatch question because it does not appear to be a cause and effect question. After a second read, It appears that the cause is temp rising in CCW, the effect is what can I do to attempt to lower CCW temp and not have to trip the unit or shutdown?</p> <p>Distractor D is not credible since RCPs are needed at full power and this is too obvious. Discuss plausibility of isolating cooling to SFP HX.</p> <p>Rev 1- Did not change distractor D.</p> <p>DCPN Comment – need to discuss. Added to explanation, see if it helps</p> <p>No changes were made to question. Isolating RCP oil coolers is just not plausible when you are at power.</p> <p>DCPN Comment – reworked answers to remove RCP oil cooler</p> <p>The one aspect of Spent Fuel Pool in the previous question that made it marginally plausible (lower than CCW temp) was removed in the current revision of the question. SFP is now not plausible. At this point, the question needs to be replaced. It has become a question that does not differentiate between qualified/not qualified applicants. Need to write a reasonably challenging question that matches the intent of the K/A. Two options would be a failure of the CCW to Letdown HX temperature control valve, or a failure of a valve that provides cooling to an RCP, and resulting RCP temperature trip criteria.</p> <p>Replaced question 3/16/16</p> <p>S</p> <p>Is boron concentration needed for this question? If this phenomenon occurs regardless of boron concentration, please remove as it cues the applicant to think about boron when considering what is happening with reactivity.</p> <p>Changed question to state MOL rather than boron concentration – Question is now SAT.</p> |
| 9 | H | 3 | | | | | | A | 41.10 | X | | N | <p>U</p> <p>KA mismatch – this KA is asking the effect of spray valve failure ON the PZR PRESS Control System not the effect of a failure of the controller on the spray valve or overall pressure control.</p> <p>S</p> <p>Rev 1- Question 46 used in place of question 9. Question 9 is now SAT.</p> |
| 10 | F | 3 | | | | | | C | 41.7 | | | B | <p>E</p> <p>Typo in explanation section, loop low flow not loop flow flow.</p> |

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| | | | | | | | | | | | | | | | | | | | S | Rev 1 – Typo fixed. Question is SAT. |
| 11 | H | 3 | | | | X | Past NRC Exam 03/2012 | | B | 41.7 | | | | | | | | B | E | Second part of distractor A is not credible. It does not fit the logic given. Change it to be A. 1 / 2 1 / 2 |
| | | | | | | | | | | | | | | | | | | | S | Rev 1 – Changed distractor A to 1 / 2, 1 / 2. Question is now SAT. |
| 12 | H | 3 | | | | | | | B | 41.7 | | | | | | | | N | S | |
| 13 | F | 3 | | | | | | | B | 41.8 | | | | | | | | N | S | |
| 14 | F | 3 | | | | X | | | C | 41.7 | | | | | | | | N | U | This is a common train question and is not unique to CSS. Also, anything with both open is not credible since only a single train of equipment is needed to ensure a SF is met. This makes all three distractors not credible and LOD = 1. Rev 1 – This is one of four questions that have been submitted where the first of three bullets are wrong and the other two are correct and the answer is 2 and 3 only – this is a predictability concern. Using NaOH to reduce containment pressure is not a plausible distractor. Question does not meet the K/A – does not test knowledge of design features or interlocks. DCPP Comment – replaced |
| | | | | | | | | | | | | | | | | | | | S | Under what conditions does statement a) apply? During design basis LOCA? Need to state. – Post-LOCA containment sump Maximum is not credible. The question asks for the basis for minimum level. The answer is obviously a minimum pH when you are talking NaOH. With the most basic chemistry knowledge, the applicant can immediately eliminate 2 distractors. Change distractors to a <u>minimum</u> pH of 9.5. Done Change ph to pH. Done "at least" is not necessary if you use minimum Done Change 8 to 8.0 – Done Question is now SAT. |
| 15 | H | 3 | | | | | | | B | 41.10 | X | | | | | | | N | U | K/A mismatch. K/A requires knowledge of abnormal condition procedures. Question only requires knowledge of expected/unexpected alarms. DCPP Comment – will discuss - must know what causes the alarms, and therefore, which ones would require attention or action during a LOCA. May have to replace KA as there are no abnormal procedures (AP's) for CS. Alarm responses have usually been considered acceptable abnormal procedures. |

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| | | | | | | | | | | | | | | | | | | | S | Add valve nomenclature to question. Nomenclature added. Question is now SAT. |
| 20 | H | 3 | | X | | X | | | DCPP NRC Exam 07/2011 | A | 41.7 | | | | | | | B | E | Cueing to answer with no semicolon in answer A between the parts of the answer and it exists (semicolon) in the other three distractors. This is also an unbalanced 2 X 2. Why is it credible that the EDG O/P BKR will remain open when a Loss of all vital power in in progress and the diesel is recovered and the corresponding bus is dead? If you fix the semicolon issue and balance the 2 X 2 properly it will be good. DCPP Comment – plausible to think that if a relay has tripped the diesel, then some operator action will be required when the diesel is started. Modified B to be balanced with D. |
| | | | | | | | | | | | | | | | | | | | S | Question is now SAT. |
| 21 | H | 2 | | | | X | | | DCPP NRC Exam 06/2008 | D | 41.7 | | | | | | | B | E | Distractors B and C are not credible as written. Why would an AFW pump start and its associated valves not work for a single power loss and vice-versa. You could just ask the power supplies to the valves or the auto start circuit and have four DC bus choices. LOD = 1 due to distractors. 'No effect' distracter is unacceptable. This effects distracter 'A'. |
| | | | | | | | | | | | | | | | | | | | S | DCPP Comment – question involves power supply to the TDAFW pump valve and the DC power supply to the LCV's. (there are only 3 DC buses). Modified to 2x2 Need to clean up the 2x2. "is not capable" versus "will NOT be capable," comma versus no comma. Done Question is now SAT. |
| 22 | H | 2 | X | | | X | | | | B | 41.7 | X | | | | | | N | E | Stem focus is not tied to Loss of offsite power so you need to add that to stem prior to Main unit trip. Distractors A and D are not credible for the given conditions (startup power not used at full power). Also, you have cueing in all three distractors with Immediately the first word of each of those and the correct answer does not. You also have a subset issue going on with several of these choices. K/A mismatch. K/A requires knowledge of effects on EDG during full-load testing WITH and a loss of offsite power event. Question only asks about a normal reactor trip. Also, is it really credible to open the EDG 1-1 output breaker from a trip at full power? |
| | | | | | | | | | | | | | | | | | | | | DCPP Comment – the main generator trip results in a loss of 500 kV or loss of offsite power. The question meets the KA because it requires knowledge of what happens when paralleled and then a loss of the grip (or 500 occurs) Rewrote question |

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| 37 | H | 3 | | | | X | | | | D | 41.11 | | | N | <p>E</p> <p>Distractor A is not credible (no effect not allowed) and there is no explanation for it either. Is there a Mode 2 for these fans? That might help with a new distractor A. Explanation section needs work (shift down, eliminate redundancy and add justification for a new distractor A).</p> <p>DCPP comment – as a side note, how does one test an interlock that potentially did not actuate if "no effect" is not allowed? For instance in this question, the intent of A was that the coincidence was not met (plausible, I believe) and therefore the mode would not change.</p> <p>Back to the fix, modified A (and B)</p> <p>S</p> <p>NUREG-1021 specifically states that "no effect/no action required" distractors should be avoided. Question is now SAT.</p> | |
| 38 | F | 4 | | | | X | | | | A | 41.4 | | | N | <p>E</p> <p>Stem is missing word Air after Service. There is cueing in the stem with IA and the answer. To fix this change the stem to read: Which of the following describes how this valve responds to a leak that develops on the service air header?</p> <p>DCPP Comment – modified as requested.</p> <p>S</p> <p>Question is now SAT.</p> | |
| 39 | H | 3 | | | | | | | | B | 41.2 | | | B | S | |
| 40 | H | 2 | X | | | X | | | | C | 41.5 | X | | N | <p>U</p> <p>I don't think that this is what the KA is asking for. Determine or interpret containment P, T, and H means read the values off of a graph or an instrument not give them increasing trends in the stem and have them diagnose the SBLOCA. You could ask where these are read (location/panel), maybe a PAM instrument recognition aspect, use normal values for these parameters and SBLOCA values to contrast, or something like that. You didn't send the USAR as required for references but does it distinguish between an RCS leak and a SBLOCA? If so, you could also focus on that difference with these values as well. Also need to send us the latest copy of your USAR as required by Attachment 3 of ES-201 and as discussed during the kick-off call for the exam.</p> <p>Distractors C and D are too easy to eliminate for the given conditions (LOD = 1).</p> <p>DCPP Comment – FSAR has been sent.</p> <p>New question</p> <p>First half of question is LOD-1. The definition of a LOCA is basic knowledge that will have been covered in simulator scenarios dozens of times. Second half of question is good.</p> | |

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| | | | | | | | | | | | | | | | S | <p>Explanation is incorrect if setpoint is 3.0 – “Containment pressure SI will occur when pressure rises an additional 1.3 psig” – should say 1.7psig</p> <p>DC worked MSIV isolation on containment pressure into the question. Question is now SAT.</p> |
| 41 | F | 2 | | | | X | | | B | 41.7 | | | | N | U | <p>Another train question based on basic plant design (second part of all three distractors and answer). Could do something like one phase A switch and one Phase B switch, both phase A, both phase B, and have a balanced 2 X 2 on just this aspect</p> <p>DCPP Comment – rewrote as suggested.</p> |
| | | | | | | | | | | | | | | | S | <p>Question is now SAT.</p> |
| 42 | H | 2 | Past NRC Exam 01/2010 | | | | | | D | 41.2 | X | | | B | S | |
| 43 | H | 3 | Past DCPN NRC Exam07/2011 | | | | | | D | 41.10 | X | | | B | E | <p>KA mismatch. This system is asking for loss of makeup, which is loss of charging, due to DP issues between charging and the RCS. Is there a DP controller for charging that could malfunction to meet this KA? The FRS aspect is an EPE question and this APE is in the APE only section so you should try to write it at the abnormal level first.</p> <p>DCPP comment – replaced</p> <p>Question still does not have a loss of makeup/charging aspect. This is a basic GFE DP question with the minor exception of FCV-128. Need to write a loss of charging question.</p> |
| | | | | | | | | | | | | | | | S | <p>DC wrote new question – question is now SAT.</p> |
| 44 | F | 2 | | | | X | | | C | 41.8 | | | | B | E | <p>What do the “NRC L091C 03/2012” words mean in the worksheet? Is this the audit exam for that year’s NRC exam, was it a requal exam question or what?</p> <p>Credibility of throttling RHR flow to delay depletion of RWST inventory when there is no leakage in the system and only that the sump is blocked?</p> <p>DCPP comment – NRC exam from 03/2012. RWST inventory is a stated goal of ECA-1.3 and several steps deal with RWST inventory. Plausible distractor. Enhanced explanation and wording of question.</p> |
| | | | | | | | | | | | | | | | S | <p>Distractor A is ok. Question is now SAT.</p> |
| 45 | H | 3 | | | | X | | | B | 41.8 | | | | N | E | <p>This question may be too close to the earlier question on CCW (Q8). We made need to change the KA if we can’t fix one or the other questions. Distractor D does not</p> |

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|----|---|---|--|--|--|---|---|---|-------|---|--|---|---|---|
| | | | | | | | | | | | | S | Modified B to state "main feedwater reg valve controller is malfunctioning place the controller in MANUAL and attempt to restore level " per comment. Question is now SAT. | |
| 50 | F | 3 | | | | | DCPP NRC Exam 1/2010 | A | 41.4 | | | B | S | |
| 51 | F | 3 | | | | X | DCPP NRC Exam 4/2007 | B | 41.5 | | | B | E S | C is not credible with the given stem phrasing. Cooldown rate being exceeded has nothing to do with natural circulation. You could put a Thot value or an RCS pressure or something like that. DCPP Comment – changed as recommended Remove "indicating an inactive loop" from C. Question is now SAT. |
| 52 | H | 2 | | | | | | B | 41.7 | X | | N | U S | K/A mismatch. K/A requires knowledge of reasons for actions in EOP for loss of vital AC electrical instrument bus. Question as written is only designed to determine why LCV-113 and 115 have an operator assigned to them while in MANUAL. Option 1 occurs in all three distractors. Distractor D should be "either 2 or 3." Should the distractors be "or" or "and"? DC made changes. Question is now SAT. |
| 53 | H | 3 | | | | | DCPP NRC Exam 07/2011 | D | 41.7 | | | B | S | |
| 54 | F | 3 | | | | | | D | 41.7 | | | N | S | |
| 55 | F | 2 | | | | X | DCPP NRC Exam 11/2012 (past 2 NRC exam) | C | 41.10 | | | N | E S | Used on 2012 NRC exam Worksheet explanation for distracter A is wrong-it does not match the choices. Not credible to determine number of spray pumps required on containment sump level. This effects wo distracters. Marked as Edit vice Unsat due to previously approved question. DCPP Comment – modified question, reference required, Can eliminate all three distractors with the simple knowledge that CS Pump 1-2 is powered from bus H. A requirement to stop a CS Pump when containment pressure is still 28 psig is not plausible (distractor B). Need to try to write a question that does not require handing out an EOP step. Generally we try to keep the RO exam free of handouts. |

| 07/2011 | | | | | | | | | | | | |
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| 70 | F | 2 | | | | X | | A | 41.10 | N | U S | <p>There are a lot of better questions that measure more detailed knowledge of this topic than this question. The distractors need work to be plausible. LOD=1 as written.</p> <p>Changed two distractors – question is now SAT.</p> |
| 71 | F | 2 | | | | X | | C | 41.3 | N | U S | <p>Distractors B and D are not credible as written. I suggest use other modes with the pressure and the 5 minute time to fix this question. Remove “if any” from the stem. Action will always be required in answers/distractors. Distractors ‘B’ and ‘D’ need operator action added to them. DCPP comment – modified answer for MODE 2</p> <p>Question is now SAT.</p> |
| 72 | F | 2 | X | | | | | C | 41.12 | N | E S | <p>This is not a higher order question, but fundamental question. You need to underline and bold highest in the stem to focus on this aspect of the question. Typos in explanation section. Need to fix typos in explanation D.</p> <p>Explanation fixed. Question is now SAT.</p> |
| 73 | F | 2 | | | | | | D | 41.12 | N | S | |
| 74 | H | 3 | | | | X | | D | 41.7 | N | E S | <p>There are a lot of better EOP entry condition questions to write than this one. Distractor D is not credible and is not allowed. Distractor ‘D’ has no associated operator action or plant response. Remove “if any” from the stem.</p> <p>DC wrote new question – question is now SAT.</p> |
| 75 | F | 2 | | | | | DCPP NRC Exam 01/2010 | D | 41.7 | B | S | |
| 76 | H | 3 | | | | X | | D | 43.5 | N | E E | <p>You don’t give the 300 psig pressure in the stem and yet the explanation for procedure transition states that in a few steps later when it is checked and stable above 300 psig the transition to E-1.2 can occur-this is a stem focus issue? Also, using diverse indications to determine if a parameter is actually stable is an RO function (there is another KA for that as well) and so is the red path determination (Distractor D).</p> <p>Rev1 - DC added 600 psig to the stem. DC changed stem to have one incore rise to 800F with all others at 510F. Need to add another one or two incores failing high. Procedure requires 5 incores for a transition to occur. 1 failed incore is not a plausible distractor.</p> |

N = 37

S = 23 (30%)

B = 5

F = 11 (44%)

E = 15 (60%)

Additional Notes:

SRO TOTALS:

M = 2

H = 14 (56%)

U = 4 (16%)

N = 18

S = 6 (24%)

GENERAL COMMENTS

1. Chief Examiner comments are indicated in **black**. Peer reviewer comments in **purple**. DCPD comments are in **red**.

2. Average difficulty is 2.50 on the RO exam and 2.72 on the SRO exam.

3. Question overlap from previous two NRC exams: Q18 and Q55.

4. The 10CFR55.41/43 distribution is: RO / SRO

| | | | |
|---------|----|--------|---|
| 41.1 = | 0 | 43.1 = | 4 |
| 41.2 = | 7 | 43.2 = | 8 |
| 41.3 = | 1 | 43.3 = | 3 |
| 41.4 = | 7 | 43.4 = | 1 |
| 41.5 = | 9 | 43.5 = | 7 |
| 41.6 = | 0 | 43.6 = | 0 |
| 41.7 = | 30 | 43.7 = | 2 |
| 41.8 = | 6 | | |
| 41.9 = | 1 | | |
| 41.10 = | 10 | | |
| 41.11 = | 1 | | |
| 41.12 = | 2 | | |
| 41.13 = | 1 | | |
| 41.14 = | 0 | | |

5. The answer distribution is: RO / SRO

A = 20 (25%) / 5 (20%)

| | | |
|--------------|---|---------|
| B = 18 (23%) | / | 7 (28%) |
| C = 19 (24%) | / | 5 (20%) |
| D = 18 (23%) | / | 8 (32%) |

6. There are __0__ RO questions with handouts provided and __6__ SRO questions with handouts provided.