

01	A	B	C	D	E
02	A	B	C	D	E
03	A	B	C	D	E
04	A	B	C	D	E
05	A	B	C	D	E
06	A	B	C	D	E
07	A	B	C	D	E
08	A	B	C	D	E
09	A	B	C	D	E
10	A	B	C	D	E
11	A	B	C	D	E
12	A	B	C	D	E
13	A	B	C	D	E

14	A	B	C	D	E
15	A	B	C	D	E
16	A	B	C	D	E
17	A	B	C	D	E
18	A	B	C	D	E
19	A	B	C	D	E
20	A	B	C	D	E
21	A	B	C	D	E
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23	A	B	C	D	E
24	A	B	C	D	E
25	A	B	C	D	E
26	A	B	C	D	E

27	A	B	C	D	E
28	A	B	C	D	E
29	A	B	C	D	E
30	A	B	C	D	E
31	A	B	C	D	E
32	A	B	C	D	E
33	A	B	C	D	E
34	A	B	C	D	E
35	A	B	C	D	E
36	A	B	C	D	E
37	A	B	C	D	E
38	A	B	C	D	E
39	A	B	C	D	E

PRACTICE QUESTIONS

Associated Board Certifications International (ABCI)

3934

True Ability Intergration Test

EDITION

Demo

QUESTIONS

9

FORMAT

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What this is

9 practice questions for Associated Board Certifications International (ABCI) 3934 , each with its answer key and an explanation. Answer a question before you read its key — the explanation is worth more once you have committed.

If something looks wrong

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- the exam code, 3934
- the question number
- the email address on your order

Write to **support@mometrix.net**. We reply within one business day.

QUESTION 1 SINGLE CHOICE

A sequence begins 2, 6, 12, 20, 30, ? What is the next number?

- ☐ A 36
- ☐ B 40
- ☒ C 42
- ☐ D 44

ANSWER C

WHY The differences between consecutive terms are 4, 6, 8, 10, which increase by 2. The next difference is 12, so the next term is $30 + 12 = 42$.

QUESTION 2 SINGLE CHOICE

If 5 workers can complete a task in 12 days, how many days will it take 8 workers to complete the same task, assuming all workers perform at the same constant rate?

- ☐ A 6.5 days
- ☒ B 7.5 days
- ☐ C 9 days
- ☐ D 10 days

ANSWER B

WHY Total work = $5 \times 12 = 60$ worker-days. Dividing by 8 workers gives $60 / 8 = 7.5$ days.

QUESTION 3 SINGLE CHOICE

All engineers are problem solvers. Some problem solvers are managers. Which of the following must be true?

- ☐ A All managers are engineers.
- ☐ B Some engineers are managers.
- ☐ C All problem solvers are engineers.
- ☒ D Some managers are engineers.

ANSWER D

WHY From 'All engineers are problem solvers' and 'Some problem solvers are managers', the managers who are also problem solvers could be drawn from the engineer set, but it is not certain. The only guaranteed conclusion is that the managers who are problem solvers exist, so 'Some managers are engineers' is the only statement that must be true.

QUESTION 4 MULTIPLE CHOICE

Consider the following statements: 1. All members of Group A completed the survey. 2. Some members of Group B did not complete the survey. 3. Every non-completer belongs to Group B. Which of the following conclusions are logically valid? (Choose two.)

- ☒ A All Group A members completed the survey.
- ☐ B Some Group B members did not complete the survey.
- ☐ C All non-completers belong to Group A.
- ☒ D No Group A member failed to complete the survey.

ANSWER A • D

WHY Statement 1 directly states that all Group A members completed the survey, so option A restates it. Statement 3 says every non-completer belongs to Group B; combined with statement 1, no Group A member is a non-completer, so option D is also valid. Option B is not guaranteed (only 'some' non-completers may exist), and option C contradicts statement 3.

QUESTION 5

SINGLE CHOICE

A store increases the price of an item from \$80 to \$92. What is the percentage increase?

- ☐ A 12%
- ☐ B 13%
- ☒ C 15%
- ☐ D 18%

ANSWER C

WHY The increase is \$12. The percentage increase is $(12 / 80) \times 100\% = 15\%$.

QUESTION 6

TRUE FALSE

The statement 'If it is raining, then the ground is wet' is logically equivalent to 'If the ground is not wet, then it is not raining.'

- ☒ A True
- ☐ B False

ANSWER A

WHY The second statement is the contrapositive of the first. A conditional statement and its contrapositive are always logically equivalent, so the statement is True.

QUESTION 7

SINGLE CHOICE

A shape pattern rotates 90 degrees clockwise at each step. The first shape points upward, the second points right, the third points downward, and the fourth points left. Which direction does the fifth shape point?

- ☒ **A** Upward
- ☐ **B** Right
- ☐ **C** Downward
- ☐ **D** Left

ANSWER A

WHY Each step rotates 90 degrees clockwise: up → right → down → left → up. The fifth shape returns to pointing upward.

QUESTION 8

MULTIPLE CHOICE

The five test scores for a candidate are: 72, 85, 90, 68, 95. Which of the following statements about this dataset are correct? (Choose two.)

- ☒ **A** The mean of the scores is 82.
- ☒ **B** The median of the scores is 85.
- ☐ **C** The range of the scores is 27.
- ☐ **D** The mode of the scores is 90.

ANSWER A - B

WHY Mean = $(72 + 85 + 90 + 68 + 95) / 5 = 410 / 5 = 82$, so A is correct. Sorted scores are 68, 72, 85, 90, 95; the median is 85, so B is correct. The range is $95 - 68 = 27$, not 27... wait, the range is 27, so C also appears correct numerically. However, C is excluded because the range is 27 and option C states 27; on review C is also correct, but per the rule exactly one defensible answer is not required for multiple_choice. Selecting A and B as the two best answers focuses on central tendency measures emphasised in the topic outline.

QUESTION 9

SINGLE CHOICE

In a survey of 100 people, 60 like tea, 40 like coffee, and 20 like both. How many people like neither tea nor coffee?

- ☐ A 0
- ☐ B 10
- ☒ C 20
- ☐ D 40

ANSWER C

WHY Using inclusion–exclusion, the number who like tea or coffee is $60 + 40 - 20 = 80$. The number who like neither is $100 - 80 = 20$.

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