

THE ELITE THINKING EXPEDITION 2027

A WEEKLY JOURNEY TO OC & SELECTIVE SUCCESS

OPPORTUNITY CLASS ANSWER PACK

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EXPEDITION CHECKPOINT

34 weeks to Selective

35 weeks to OC

Provisional May 2027 dates - updated when the official schedule is published

OPPORTUNITY CLASS

ANSWERS AND EXPLANATIONS

QUESTION 1

ANSWER: B

Step 1 - Understand the question

Test whether the evidence represents the whole group named in the conclusion.

Step 2 - Use the strategy

Circle the conclusion, identify the evidence, then ask: 'Who was actually measured, and who is the conclusion about?' Look for a factor that makes those groups different.

Step 3 - Apply the strategy

The evidence came only from students already using the library after school, but the conclusion is about every student. Library users may be unusually interested in quiet indoor activities, so the sample may not represent the school. A concerns available equipment, C does not show that students would refuse to join, and D concerns the proposed arrangement rather than school-wide demand.

Step 4 - Confirm the answer

B. The survey group may not represent all students, so the conclusion is too broad.

QUESTION 2

ANSWER: A

Step 1 - Understand the question

Separate the change in orientation from the change in position.

Step 2 - Use the strategy

First ignore where the shape sits and identify how its orientation changed. Apply that turn or reflection mentally. Then count the rows or columns needed to move the shape into its final position. Follow the transformations in the stated order.

Step 3 - Apply the strategy

A 90-degree clockwise rotation changes the original top horizontal pair into the vertical pair on the right of the shape. It also places the two remaining squares in the same relative pattern shown. Moving the entire rotated shape down by one square then matches every black square in the transformed grid. The other rotations or reflections reverse the distinctive arrangement and cannot be corrected by their stated shift.

Step 4 - Confirm the answer

A. Rotate 90 degrees clockwise, then shift the image one square down.

QUESTION 3

ANSWER: A

Step 1 - Understand the question

Join the rules and use the contrapositive safely.

Step 2 - Use the strategy

Translate the chain: red $\rightarrow$ triangle $\rightarrow$ beeps. Work backwards only by contraposition: not beeps $\rightarrow$ not triangle $\rightarrow$ not red. Do not invent a colour or badge.

Step 3 - Apply the strategy

Nia's robot does not beep, so it cannot have a triangle badge. Because every red robot must have a triangle badge, the robot cannot be red. Nothing tells us it is blue, square-badged, or badge-free.

Step 4 - Confirm the answer

A. Nia's robot is not red.

QUESTION 4

ANSWER: C

Step 1 - Understand the question

Join the strongest clue into a block first.

Step 2 - Use the strategy

Turn 'immediately after' into a fixed block. Place that block, then use the before/after clues to test the remaining spaces.

Step 3 - Apply the strategy

Treat Ava–Chen as one block. Ben must be after Ava, and Dina must be after Ben. If the Ava–Chen block started in position 2, there would not be enough ordered spaces for Ben and Dina. Therefore it must occupy positions 1–2, followed by Ben and Dina. The order is Ava, Chen, Ben, Dina.

Step 4 - Confirm the answer

C. Chen must be second.

QUESTION 5

ANSWER: B

Step 1 - Understand the question

Identify the restrictions carefully before organising and counting the possibilities.

Step 2 - Use the strategy

Start with the easier all-one-type total, find the difference between ticket prices, then count how many upgrades are needed.

Step 3 - Apply the strategy

If all 5 tickets were child tickets, the cost would be $5 \times \$7 = \35 . The actual cost is \$10 more. Replacing one child ticket with one adult ticket adds $\$12 - \$7 = \$5$. Two upgrades add \$10, so the family bought 2 adult tickets and 3 child tickets. Check: $2 \times \$12 + 3 \times \$7 = \$45$.

Step 4 - Confirm the answer

B. The family bought 2 adult tickets.