

Practice Test

Level D







The purpose of this practice test is to prepare students for the Naglieri Nonverbal Ability Test (NNAT) so that they will be familiar with the different types of questions that will appear on the test. With the help of this practice test, students will learn to mark their answers properly and gain confidence prior to taking the test. Understanding what to expect on the test will improve your child's chances of success as well as help reduce his/her anxiety on test day.

The NNAT2 (second edition) contains 48 questions, and children are allotted approximately 30 minutes to complete the test. The sample test below contains 10 practice questions for the NNAT2 Level D.

Additional Practice

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Questions 1-2 (Pattern Completion)

About Pattern Completion

In Pattern Completion items, students are shown a design and asked to identify which portion is missing. In order to reach the answer, the child must conceptually extend the given pattern. Pattern Completion items appear in NNAT levels which are intended for elementary school aged children because they are among the simpler types of NNAT questions.

Directions

Look at the design in the large rectangle while paying attention to the missing square. Which answer choice completes the design?

Additional Tips

Questions 3-4 (Reasoning by Analogy)

About Reasoning by Analogy

In Reasoning by Analogy questions, students are expected to recognize relationships among various geometric shapes. To determine which answer choice is correct, the student must determine how the geometric objects change as one moves across the rows and down the columns of the design. Reasoning by Analogy questions require that the student pay careful attention to the details of the design and work with more than one dimension (shape and shading) simultaneously.

Directions

Look for a relationship between the figures across the rows and down the columns. The direction in which you examine the question should depend on where you can most easily visualize the analogous relationship.

Additional Tips



Questions 5-7 (Serial Reasoning)

About Serial Reasoning

Serial Reasoning questions assess the test taker's ability to supply a missing element in a given matrix comprised of geometric shapes. Each matrix is composed of nine boxes in a three-by-three grid. The test taker is to determine which answer choice belongs in the empty box in the bottom right-hand corner of the grid.

Directions

Identify the image which completes the pattern by examining how the series of shapes change across the rows and down the columns within the matrix. Where you can most easily visualize the relationship will determine the direction in which you examine the question.

Additional Tips

Questions 8-10 (Spatial Visualization)

About Spatial Visualization

Spatial Visualization questions require students to mentally manipulate shapes. These items are among the most difficult in the NNAT, especially in questions which involve shapes that intersect in ways which are difficult to recognize or involve rotation.

Spatial Visualization questions are commonly seen on aptitude tests, preemployment tests, and admission tests to certain academic institutions. NNAT Levels C-G include Spatial Visualization items.

Directions

Determine how the figures relate to each other, and apply this relationship to the row with the empty frame. Visualize how the objects might look when rotated, transformed, or combined.

Additional Tips



























Answers & Explanations

1. The correct answer is 4.



2. The correct answer is 3.



3. The correct answer is 2.

Down every column, the front rectangle is always the same color. In the left column, it is always blue. In the middle column, it is always yellow. And in the right column, it is always white. The missing frame is in the right column; therefore, it should contain a white rectangle in the front. We can eliminate answer choices 1, 3, and 5, because they do not contain a white rectangle in the front.

Additionally, across each row, the back rectangle is always the same color. In the top row, it is always blue. In the middle row, it is always white. And in the bottom row, it is always yellow. The missing frame is in the bottom row; therefore, it should contain a yellow rectangle in the back. We can further eliminate answer choice 4, because it does not have a yellow rectangle in the back.

We are left with answer choice 2, which is the correct answer.

4. The correct answer is 5.

Across every row, the yellow part of the shape gets larger by ¼ of the shape. Look at the top row: in the left frame, the yellow part looks like a ¼ moon. In the middle frame, the yellow part is a ½ moon. And in the right frame, the yellow part is a ¾ moon. The same relationship exists in the middle row. In the bottom row, the yellow part is ¼ circle in the first frame. In the next frame, the yellow part is ½ circle. The last (missing) frame should contain a yellow part that is ¾ of the circle. We can eliminate answer choices 1, 3, and 4, because they have yellow parts that are smaller than ¾ of a circle.

Additionally, the yellow part just gets larger, it doesn't rotate. We can further eliminate answer choice 2, because it contains a circle which rotated 90°. We are left with answer choice 5, which is the correct answer.

We can also look at this another way. In every row the right and left frames switch colors and are mirror images of each other.



5. The correct answer is 4.

There are three types of shapes in the above figure: a square with diagonal lines, a square with a horizontal and vertical line, and a diamond with a horizontal and vertical line. Each row and column contains one of each type of figures. Since the right column and bottom row do not contain a square with a horizontal and vertical line, the answer choice will contain this type of figure. We can eliminate answer choice 2.

Additionally, across the rows there is a pattern associated with the colors. In the first row the background color is blue and the figures are white. In the second row the background color is yellow and the figures are blue. In the third row the background color is white and the figures are yellow. We can eliminate answer choices 1 and 3, as they do not contain white backgrounds and yellow figures.

In the matrix each frame contains a circle. The color of the circle depends on the column. The circles in the left column are white, the circles in the middle column are blue, and the circles in the last column are yellow. Additionally, across a row or down a column each circle is a different size. Since we already have a large circle in the right column and left row we can eliminate choice 5. Therefore, we are left with answer choice 4 as the correct answer.

6. The correct answer is 1.

Across the rows, the sectors rotate 90° (1/4 circle) clockwise. Down the columns, the sectors rotate 90° counterclockwise. Rotating the sectors in the bottom-middle frame counterclockwise 90° will result in a sector which opens towards the top-right corner of the frame.

Therefore, answer choice 1 is the correct answer.

7. The correct answer is 3.

Across the rows and down the columns, each row and column contains one hexagon, one diamond, and one trapezoid. Since the bottom row and third column each contain one diamond and a trapezoid, the empty square will contain a hexagon. We can eliminate answer choices 2, 4, and 5.

Pay attention to the color scheme of the matrix. Every other frame contains an image with a different background color (yellow or white). Since the middle frame in the third column contains a white background and the middle frame in the third row contains a white background, the answer choice will be an image with a yellow background.

We are left with answer choice 3 as the correct answer.

8. The correct answer is 3.

Look at the top row and determine how the shapes change from the left frame to the right frame. In the left frame, we have a blue triangle on the left side of the frame at the top, a yellow triangle on the left side of the frame at the bottom, a blue triangle on the right side of the frame at the bottom, and a yellow triangle on the right side of the frame at the top. In the right frame the shapes flip into the frame (as if they were attached to the side and were flipped like the flaps of a box).

The same relationship will exist in the bottom row. Therefore, the missing frame should



contain a small yellow square in the upper-left and lower-right corners, and a small blue square in the upper-right and lower-left corners.

We can eliminate answer choices 1 and 5 since these answer choices contain squares which are too big. We can also eliminate answer choices 2 and 4, because some or all of the squares are the wrong color.

We are left with answer choice 3 as the correct answer.

9. The correct answer is 2.

Look at the top row. The left frame contains two arrows on the outside of the frame: a yellow arrow on the top-right side and a blue arrow on the bottom-left side. In the right frame, both triangles remain in the top and left sides of the frame, but are flipped inward.

The figures in the bottom row will exhibit the same relationship. The left frame contains a yellow triangle on the outer-left side of the frame and a blue triangle on the outer-right side of the frame. By applying the same change to the bottom row, the right frame will contain a yellow triangle on the inner-left side of the frame and a blue triangle on the inner-right side of the frame. Answer choice 2 adheres to the above requirements.

10. The correct answer is 5.

In the top row the figures in the left and center frames combine to make the figure in the right frame. The same idea applies to the bottom row. Combine the figures in the bottom-left frame with the figures in the bottom-center frame to receive answer choice 5.

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