TEXT VERSION · SCREEN-READER FRIENDLY

NNAT3 Level D workbook sample: text version

The NNAT3 Level D workbook sample written out in words, for screen readers and for anyone who prefers text. It has the same instructions, questions and answers as the PDF.

Every picture is described: what is drawn, where it is and how it is filled. The descriptions do not give the answers away. The answers and explanations are in their own section at the end, after all the questions.

> The first page reads: Reasonwell Press · 6 original questions + explained answers · NNAT3 Level D · Free workbook sample

About this sample

Six questions from the practice sets of the NNAT3 Level D Practice Test Workbook (Grades 3–4), with answers and explanations at the back.

A short way to use these pages

Each question is a puzzle with one part left out. Your child picks the answer picture, A to E, that completes it. There is no timer. Ask your child to say the rule aloud and to check every choice before deciding. Then read the explanation together on sample pages 5-6. This is a short sample, not a scored or standardized test.

Printing: print in color at actual size on US Letter paper. Keep the answer pages (sample pages 5-6) aside until you finish.

About the full workbook: **reasonwellpress.com/books/nnat/**

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Questions

6 questions, in the order they are printed, on 3 pages.

How the pictures are described

- Sample page numbers above refer to the PDF. On this page, the explanations from sample pages 5-6 are in the answers section at the end.
- Each question is one color picture: a puzzle with five answer pictures in a row below it, lettered A to E. No instruction is printed with a question.
- Each question is headed with its number, its puzzle type, its level and its page in the workbook.
- Sizes in the answer pictures are described compared with the shapes in the puzzle.

PRACTICE QUESTIONS

Sample page 2: Questions 1 and 2

Question 1 | Reasoning by analogy | Easy | Workbook p. 53

The picture:

A grid of two rows and two columns, with five answer pictures below it. The bottom-right box is empty and marked with a question mark.

- Top left: A large yellow diamond with a small blue square in its middle.
- Top right: A large yellow diamond, the same size as the first, with nothing inside it.
- Bottom left: A large yellow heart with a small blue triangle, pointing up, in its middle.

- Bottom right: Empty, with a question mark.

Five answer pictures, lettered A to E:

Choice A: A small yellow heart, about half the size of the heart in the puzzle, with nothing inside it.

Choice B: A large blue heart, the same size as the heart in the puzzle, with nothing inside it.

Choice C: A small blue heart, about half the size of the heart in the puzzle, with nothing inside it.

Choice D: A large yellow heart, the same size as the heart in the puzzle, with nothing inside it.

Choice E: A small blue triangle pointing up, the same size as the triangle in the puzzle, with no heart.

Question 2 | Serial reasoning | Easy | Workbook p. 79

The picture:

A grid of three rows and three columns, with five answer pictures below it. The bottom-right box is empty and marked with a question mark. Every shape, in the grid and in the answers, is the same size and has a black outline.

- Top row, left: A white circle.
- Top row, middle: A white plus sign.
- Top row, right: A white crescent moon with its two points facing right.
- Middle row, left: A blue circle.
- Middle row, middle: A blue plus sign.
- Middle row, right: A blue crescent moon with its two points facing right.
- Bottom row, left: A yellow circle.
- Bottom row, middle: A yellow plus sign.

- Bottom row, right: Empty, with a question mark.

Five answer pictures, lettered A to E:

Choice A: A yellow circle.

Choice B: A blue crescent moon with its two points facing right.

Choice C: A blue circle.

Choice D: A yellow plus sign.

Choice E: A yellow crescent moon with its two points facing right.

PRACTICE QUESTIONS

Sample page 3: Questions 3 and 4

Question 3 | Spatial visualization | Easy | Workbook p. 101

The picture:

A grid of three rows and three columns, with five answer pictures below it. The bottom-right box is empty and marked with a question mark. A half shape sits on its own side of its box, with its straight cut edge at the middle of the box.

- Top row, left: The left half of a yellow circle: a half circle with its straight cut edge on the right.
- Top row, middle: The right half of a yellow circle: a half circle with its straight cut edge on the left.
- Top row, right: A whole yellow circle, as tall as the two halves.
- Middle row, left: The left half of a blue six-sided shape (a hexagon), with its straight cut edge on the right and a point on the left.
- Middle row, middle: The right half of a blue hexagon, with its straight cut edge on the left and a point on the right.

- Middle row, right: A whole blue hexagon, as tall as the two halves, with flat top and bottom edges and a point on each side.
- Bottom row, left: The left half of a blue triangle: a narrow triangle with its point at the top, a straight upright cut edge on the right and a slanted edge on the left.
- Bottom row, middle: The right half of a blue triangle: the same narrow triangle facing the other way, with its upright cut edge on the left and its slanted edge on the right.
- Bottom row, right: Empty, with a question mark.

Five answer pictures, lettered A to E:

Choice A: A whole blue triangle pointing up with a flat bottom edge, about one and a half times as tall as the pieces in the bottom row of the puzzle.

Choice B: A blue half triangle just like the piece in the bottom-left box: point at the top, upright edge on the right, slanted edge on the left, and the same size.

Choice C: A whole blue triangle pointing up with a flat bottom edge, the same height as the pieces in the bottom row of the puzzle.

Choice D: A blue half triangle shaped like the piece in the bottom-left box (upright edge on the right, slanted edge on the left), but about one and a half times as tall.

Choice E: A whole yellow triangle pointing up with a flat bottom edge, about one and a half times as tall as the pieces in the bottom row of the puzzle.

Question 4 | Pattern completion | Easy | Workbook p. 24

The picture:

One large rectangular picture filled with round dots, with a white box covering its top-right corner. Below it are five small square answer patches, each holding four dots.

- The picture is a field of dots in six rows and ten columns, evenly spaced, each dot with a black outline.
- The columns take turns in color. The first column on the left is blue, the second is yellow, the third is blue, and so on across the picture. Every dot in a column is the same color.
- The dots are a different size in each row. The bottom row has the smallest dots. Each row above has bigger dots than the row below it, by the same amount each time, so the top row has the biggest dots. All the dots in one row are the same size.
- A white box with a black outline covers the top-right corner. It hides the last two dots on the right in each of the top two rows: a space two dots wide and two dots tall. So the top two rows show eight dots each, and the four rows below show all ten, ending in a blue dot and then a yellow dot.

Five answer patches, lettered A to E:

Choice A: Four dots, two above and two below. The two on the left are blue and the two on the right are yellow. The top two are as big as the dots in the top row of the picture; the bottom two are a little smaller, as big as the dots in the second row.

Choice B: Four dots, two above and two below. The two on the left are yellow and the two on the right are blue. The sizes are the same as in choice A: the top two as big as the top row of the picture, the bottom two as big as the second row.

Choice C: Four small dots, two above and two below. The two on the left are yellow and the two on the right are blue. The top two are as small as the dots in the bottom row of the picture; the bottom two are a little bigger, as big as the dots in the second row from the bottom.

Choice D: Four dots, two above and two below, all the same middle size, about as big as the dots halfway down the picture. The two on the left are blue and the two on the right are yellow.

Choice E: Four dots, two above and two below, all the same middle size as in choice D. The two on the left are yellow and the two on the right are blue.

PRACTICE QUESTIONS

Sample page 4: Questions 5 and 6

Question 5 | Spatial visualization | Medium | Workbook p. 106

The picture:

A grid of two rows and two columns, with five answer pictures below it. The bottom-right box is empty and marked with a question mark. Each of the other three boxes, and each answer picture, has a dashed line running straight down its middle, with small shapes on the left or the right of the line.

- Top left: Three shapes, one above the other, on the left of the dashed line; nothing on the right. At the top, close to the line, a blue heart lying on its side with its point toward the line. In the middle, close to the line, a black arrow pointing left, away from the line. At the bottom, farther from the line, a yellow half circle with its flat edge on the left and its round side toward the line.
- Top right: The same three shapes on the left of the dashed line, and three more on the right, each at the same height and the same distance from the line as its partner. On the right: at the top, a blue heart lying on its side with its point toward the line; in the middle, a black arrow pointing right, away from the line; at the bottom, a yellow half circle with its flat edge on the right and its round side toward the line.
- Bottom left: Three shapes, one above the other, on the left of the dashed line; nothing on the right. At the top, close to the line, a yellow arrowhead (a thick V shape) pointing right, toward the line. In the middle, farther from the line, a yellow triangle pointing left, away from the line. At the bottom, close to the line, a blue staircase of three steps with a flat bottom, its lowest step on the left and its tallest side next to the line.

- Bottom right: Empty, with a question mark.

Five answer pictures, lettered A to E:

Choice A: Nothing on the left of the line. On the right: at the top, close to the line, a yellow arrowhead pointing left, toward the line; in the middle, farther from the line, a yellow triangle pointing right, away from the line; at the bottom, close to the line, a blue staircase with a flat bottom, its tallest side next to the line and its lowest step on the right.

Choice B: On the left, the three shapes just as in the bottom-left box of the puzzle. On the right: at the top, a yellow arrowhead pointing right, away from the line; in the middle, farther from the line, a yellow triangle pointing left, toward the line; at the bottom, a blue staircase turned upside down, with its flat edge on top, its steps underneath, its shortest side next to the line and its longest side on the right.

Choice C: On the left, the three shapes just as in the bottom-left box of the puzzle. On the right: at the top, a yellow arrowhead pointing left, toward the line; in the middle, farther from the line, a yellow triangle pointing right, away from the line; at the bottom, a blue staircase with a flat bottom, its tallest side next to the line and its lowest step on the right.

Choice D: On the left, the three shapes just as in the bottom-left box of the puzzle. On the right, the same three shapes drawn the same way round as on the left: at the top, a yellow arrowhead pointing right, away from the line; in the middle, farther from the line, a yellow triangle pointing left, toward the line; at the bottom, a blue staircase with a flat bottom, its lowest step next to the line and its tallest side on the right.

Choice E: On the left, the three shapes just as in the bottom-left box of the puzzle. On the right, only two shapes: at the top, a yellow arrowhead pointing right, away from the line; at the bottom, a blue staircase with a flat bottom, its lowest step next to the line and its tallest side on the right. There is no triangle on the right.

Question 6 | Serial reasoning | Medium | Workbook p. 82

The picture:

A grid of three rows and three columns with one arrow in each box, and five answer pictures below it. The bottom-right box is empty and marked with a question mark. The arrows come in three sizes: small, medium and large. Each has a black outline.

- Top row, left: A small yellow arrow pointing down.
- Top row, middle: A medium blue arrow pointing down.
- Top row, right: A large white arrow pointing down.
- Middle row, left: A small blue arrow pointing right.
- Middle row, middle: A medium white arrow pointing right.
- Middle row, right: A large yellow arrow pointing right.
- Bottom row, left: A small white arrow pointing up.
- Bottom row, middle: A medium yellow arrow pointing up.
- Bottom row, right: Empty, with a question mark.

Five answer pictures, lettered A to E:

Choice A: A medium blue arrow pointing right.

Choice B: A large blue arrow pointing right.

Choice C: A large blue arrow pointing up.

Choice D: A large white arrow pointing right.

Choice E: A medium blue arrow pointing up.

Answers and explanations

Try the questions first. The answers follow below.

Check the rule.

Match each answer to its question number.

Question 1 | Reasoning by analogy | Workbook p. 53

Answer D. This kind of puzzle is called “Something is taken away” in the workbook. In the top row, the small shape inside is taken away. The big shape stays exactly the same. Take away the small shape from the bottom picture. The missing picture is a yellow heart: choice D. Choice A takes away the small shape but shrinks the big one. Choice B takes away the small shape but changes the color. Choice C has the wrong color (blue) and the wrong size (too small). Choice E takes away the big shape instead of the small one.

Back to the question

Question 2 | Serial reasoning | Workbook p. 79

Answer E. This kind of puzzle is called “Rows and columns each have a job” in the workbook. Each column keeps the same shape, and each row keeps the same color. The missing box is in the right column, so it is a moon, and it is in the bottom row, so it is yellow. The missing picture is a yellow moon opening to the right: choice E. Choice A has the wrong shape. Choice B has the color of the middle row instead of the bottom row. Choice C has a shape and a color from the wrong places. Choice D has the shape from the middle column instead of the right column.

Back to the question

Question 3 | Spatial visualization | Workbook p. 101

Answer C. This kind of puzzle is called “Joining two halves” in the workbook. In each row, the first two pictures are two halves of one shape. Slide them together and they make the whole shape in the third box, with each half keeping its color. Join the two halves in the bottom row. The missing picture is a blue triangle: choice C. Choice A has the right shape and colors but is

too big. Choice B shows only one half. Choice D has only one half of the shape and the wrong size (too big). Choice E has the wrong size (too big) and the wrong color (yellow).

Back to the question

Question 4 | Pattern completion | Workbook p. 24

Answer A. This kind of puzzle is called “Shapes that grow” in the workbook. Going from bottom to top, the dots get a little bigger at every step. Each column keeps its own color. Pick the patch whose dots are the right sizes for the part of the picture the white box covers, with the right color in each column. Choice A is the only patch that matches. Choice B puts the colors in the wrong columns. Choice C puts the colors in the wrong columns and also has dots that shrink instead of grow. Choice D makes all the dots the same size. Choice E makes the dots all the same size and puts the colors in the wrong columns.

Back to the question

Question 5 | Spatial visualization | Workbook p. 106

Answer C. This kind of puzzle is called “Folding over” in the workbook. The dashed line is a fold. In the top row, fold the paper along the dashed line and press: every shape is printed on the other side as a mirror image, in the matching spot. Do the same with the bottom-left picture: each shape appears again on the other side of the line, flipped left to right. The missing picture is the shapes on both sides of the fold line, each one a mirror image of its partner: choice C. Choice A shows only the folded copies and leaves out the shapes that were already there. Choice B puts each copy in the right spot but flips it upside down instead of left to right. Choice D slides the shapes across without flipping them like a mirror. Choice E slides the shapes across without flipping them, and forgets one.

Back to the question

Question 6 | Serial reasoning | Workbook p. 82

Answer C. This kind of puzzle is called “Changes going across and going down” in the workbook. Two things change in two directions. Going down each column, the arrows turn a quarter turn to the left. Going across each row, the arrow gets bigger each time. The colors also follow their own rule: every row and every column has each color once. Use the bottom row to decide how big it is, and the last column to decide which way it points. The missing picture is a big blue arrow pointing up: choice C. Choice A is the wrong size and does not turn. Choice B forgets to turn. Choice D has the wrong direction and the wrong color (white). Choice E is the middle size instead of the biggest.

Back to the question

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