TEXT VERSION · SCREEN-READER FRIENDLY

NGAT Grades 5–6 workbook sample: text version

The NGAT Grades 5–6 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 · 12 original questions + explained answers · NGAT Grades 5-6 · Free workbook sample

About this sample

Six actual pages from the final workbook, with answers and explanations to read after you try the questions.

Choose where to begin

- Verbal | Sample pages 2-3. Six pictures: find the one that does not share the rule of the other five.
- Nonverbal | Sample pages 4-5. Look for relationships in shapes, shading, position and direction.
- Quantitative | Sample pages 6-7. Follow the directions to reason with quantities, patterns and equal values.

A short way to use these pages

Try a few questions without a timer. Say the rule you noticed, then compare it with the explanations on sample pages 8-9. The set includes easier starting points and more involved problems; it is not a scored or standardized test.

Printing: print at actual size on US Letter paper. Keep the answer pages aside until you finish. The six workbook pages retain their original page and question numbers, so the numbers jump.

More pages and the full workbook: **reasonwellpress.com/books/ngat-grades-5-6/**

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Questions

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

How the pictures are described

- Sample page numbers above refer to the PDF. On this page, the explanations from sample pages 8-9 are in the answers section at the end.
- The pictures in the verbal questions are grey drawings of everyday things.
- "Empty" means a white shape with a black outline. "Solid" means filled in black. "Dotted" means a grey dot pattern inside a black outline. "Striped" means grey diagonal stripes inside a black outline.
- On the printed page, each question ends with a row of answer circles, labelled like the choices, for marking a choice.

PRACTICE FORM

Workbook page 51: Form A · Verbal Battery

Q1

Six numbered pictures, in two rows of three:

Choice 1: a tortoise walking

Choice 2: a striped cat walking

Choice 3: a balloon on a string

Choice 4: a cow with dark patches

Choice 5: an elephant

Choice 6: a bee flying

Q2

Six numbered pictures, in two rows of three:

Choice 1: an ice-cream cone

Choice 2: an ear of corn with its husk peeled back

Choice 3: a bunch of grapes

Choice 4: a round iced cake decorated with beads of icing

Choice 5: a plain mug

Choice 6: a pretzel sprinkled with salt

PRACTICE FORM

Workbook page 62: Form A · Verbal Battery

Q23

Six numbered pictures, in two rows of three:

Choice 1: a die (a dice cube) showing its dots

Choice 2: a woolly sheep

Choice 3: a mouse sitting up

Choice 4: a goat

Choice 5: a table

Choice 6: a hen

Q24

Six numbered pictures, in two rows of three:

Choice 1: an open umbrella

Choice 2: a jar with a lid

Choice 3: an open book with pictures

Choice 4: a pair of scissors

Choice 5: a hammer

Choice 6: an open cardboard box

PRACTICE FORM

Workbook page 73: Form A · Nonverbal Battery

Q3

The picture:

A grid of three rows and three columns:

- Top row: an empty circle, a dotted circle, a solid circle.
- Middle row: an empty square, a dotted square, a solid square.
- Bottom row: an empty triangle, a dotted triangle, then a question mark.

Five answer choices:

Choice 1: a solid triangle

Choice 2: a dotted triangle

Choice 3: a solid square

Choice 4: an empty triangle

Choice 5: a striped triangle

Q4

The picture:

Every arrow in this grid is empty: white with a black outline.

A grid of three rows and three columns:

- Top row: an arrow pointing up, an arrow pointing right, an arrow pointing down.
- Middle row: an arrow pointing up, an arrow pointing right, an arrow pointing down.
- Bottom row: an arrow pointing up, an arrow pointing right, then a question mark.

Five answer choices:

Choice 1: an empty arrow pointing down

Choice 2: an empty arrow pointing right

Choice 3: an empty arrow pointing left

Choice 4: an empty arrow pointing up

Choice 5: a solid black arrow pointing down

PRACTICE FORM

Workbook page 84: Form A · Nonverbal Battery

Q25

The picture:

On the left, a square box with two small arrows side by side. Both arrows point diagonally up and to the right. Both are outlined in black and filled with a light grey checked pattern.

In the middle, a small dot with a curved arrow above it that bends clockwise, from the top round to the right. The label under it reads “quarter turn”.

On the right, a box with a dashed outline and a question mark.

Five answer choices. Every arrow in them has the same grey checked fill:

Choice 1: two small arrows side by side, both pointing up and to the right

Choice 2: two small arrows side by side, both pointing up and to the left

Choice 3: two small arrows side by side, both pointing down and to the left

Choice 4: one large arrow pointing down and to the right

Choice 5: two small arrows side by side, both pointing down and to the right

Q26

The picture:

A grid of three rows and three columns. Each cell holds an outline shape (a circle, a square or a diamond) with an arrow inside it. “Empty”, “dotted” and “solid” describe the arrows.

- Top row: a circle with an empty arrow pointing up; a square with an empty arrow pointing right; a diamond with an empty arrow pointing down.

- Middle row: a square with a dotted arrow pointing up; a diamond with a dotted arrow pointing right; a circle with a dotted arrow pointing down.
- Bottom row: a diamond with a solid arrow pointing up; a circle with a solid arrow pointing right; then a question mark.

Five answer choices:

Choice 1: a diamond with a solid arrow pointing down

Choice 2: a square with a solid triangle pointing down inside it (a triangle only, with no arrow stem)

Choice 3: a square with a dotted arrow pointing down

Choice 4: a square with a solid arrow pointing right

Choice 5: a square with a solid arrow pointing down

PRACTICE FORM

Workbook page 94: Form A · Quantitative Battery

Q3

How many in all?

The picture:

Four boxes in a row. Each box has three dots in a slanting line from top left to bottom right.

Five lettered choices, each a number:

Choice A: 7

Choice B: 12

Choice C: 3

Choice D: 4

Choice E: 15

Q4

Each box changes the same way. How many come next?

The picture:

Three rows. In each row, a box of small empty circles, an arrow pointing right, then a second box:

- Example: a box with 2 circles, an arrow, then a box with 6 circles in two rows of three.
- Example: a box with 5 circles (three above, two below), an arrow, then a box with 9 smaller circles in three columns of three.
- Your turn: a box with 7 small circles (a column of three, then two columns of two), an arrow, then a shaded box with a question mark.

Five lettered choices, each a number:

Choice A: 11

Choice B: 14

Choice C: 9

Choice D: 12

Choice E: 10

PRACTICE FORM

Workbook page 105: Form A · Quantitative Battery

Q25

The picture:

Six cards in a row, joined by arrows pointing right: 3, 8, 15, 24, 35, then a shaded card with a question mark.

Five lettered choices, each a number:

Choice A: 47

Choice B: 35

Choice C: 50

Choice D: 48

Choice E: 46

Q26

How many small cubes must you add at the question mark?

The picture:

At the top: one large cube, an equals sign, then three small cubes.

Below: a balance scale with a straight, level beam resting on a triangle, and a curved pan at each end. Above the left side: three large cubes and two small cubes. Above the right side: one large cube and a question mark.

Five lettered boxes of small cubes:

Choice A: 3 small cubes in a row

Choice B: 11 small cubes, in rows of four, four and three

Choice C: 9 small cubes, in three rows of three

Choice D: 7 small cubes, in rows of three, three and one

Choice E: 8 small cubes, in rows of three, three and two

Answers and explanations

Try the questions first. The answers follow below.

Check the rule.

Match the area and question number to the workbook page.

Verbal | Q1 | Workbook p. 51

Answer 3. Five pictures are animals. The balloon is not.

Back to the question

Verbal | Q2 | Workbook p. 51

Answer 5. Five pictures are foods. The mug is not.

Back to the question

Verbal | Q23 | Workbook p. 62

Answer 1. The sheep, table, chicken, mouse and goat have legs. The die has none.

Back to the question

Verbal | Q24 | Workbook p. 62

Answer 5. Five things can open. The hammer cannot.

Back to the question

Nonverbal | Q3 | Workbook p. 73

Answer 1. The bottom row is triangles and the last column is solid, so the missing cell is a solid triangle.

Back to the question

Nonverbal | Q4 | Workbook p. 73

Answer 1. After up and right comes down, so the final arrow points down.

Back to the question

Nonverbal | Q25 | Workbook p. 84

Answer 5. A clockwise quarter-turn carries the pair from the upward diagonal to the downward diagonal. A note on this question: each arrow makes a clockwise quarter turn where it stands, so both end up pointing down and to the right, still side by side. Turning the whole picture as one piece would also stack the arrows one above the other, and no choice shows that. If your child turned the whole pair, that is careful thinking worth talking through.

Back to the question

Nonverbal | Q26 | Workbook p. 84

Answer 5. The missing outer shape is square; its inner arrow uses the right column's 180-degree turn and the bottom row's solid fill.

Back to the question

Quantitative | Q3 | Workbook p. 94

Answer B. Four groups of three dots make twelve.

Back to the question

Quantitative | Q4 | Workbook p. 94

Answer A. Two becomes six and five becomes nine by adding four, so seven becomes eleven.

Back to the question

Quantitative | Q25 | Workbook p. 105

Answer D. The increase grows by two each time. Adding thirteen to 35 gives 48.

Back to the question

Quantitative | Q26 | Workbook p. 105

Answer E. Three large cubes and two small cubes weigh eleven. One large cube on the other pan weighs three, so eight small cubes are needed.

Back to the question

About these materials

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