3.55-5 Verbal Reasoning: Logic Set 5: 10-minute Pack

GL ASSESSMENT EP.V74 · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

This is a 10-minute Verbal Reasoning depth practice on logic and deduction (Set 5), styled on GL Assessment 11+ multiple-choice papers. It is a fifth, all-new set of reasoning questions on this topic. There are 35 questions across five sections: Deductive Reasoning Statements, Ordering and Ranking, True or False from Information, Day and Time Puzzles, and Family Relationship Puzzles. Every question is worth 1 mark, for 35 marks in total. Difficulty increases through each section and across the pack as a whole, finishing with scholarship-level stretch questions that combine several reasoning steps or hinge on precise family or in-law terminology. For each question, choose the ONE best answer from the options given. No calculator is allowed. Treat every statement in a question as certainly true, however unusual it seems, and base your answer only on what is actually said, never on outside knowledge or guesswork; only choose an option such as 'cannot tell' when the information truly is not enough to be certain, not simply because working out the answer takes several steps.

Worked example (Deductive Reasoning Statements). Statement 1: Every book borrowed from the reference shelf at Hartfield Library must be returned within 24 hours. Statement 2: Noah borrowed a book from the reference shelf on Monday morning. Which conclusion must be true? A) Noah must return the book within 24 hours of borrowing it B) Noah may keep the book for as long as he likes C) All books at the library must be returned within 24 hours D) Cannot tell when Noah must return the book E) Noah did not borrow the book from the reference shelf **Answer: A.** Statement 1 tells us that any book borrowed from the reference shelf at Hartfield Library must go back within 24 hours. Statement 2 confirms Noah borrowed his book from that same reference shelf, so by the rule in statement 1 he must return it within 24 hours. Option B directly contradicts the rule. Option C wrongly extends the rule to every book in the library, rather than only reference-shelf books. Option D wrongly claims uncertainty when the two statements combine directly to give a definite answer. Option E directly contradicts statement 2. Apply this same careful approach throughout the pack, even as the sections move from deductive reasoning statements to ordering and ranking puzzles, true-or-false judgements from short pieces of information, day and time calculations, and family relationship puzzles: treat every statement as certainly true, base your answer only on what is actually said, and only choose 'cannot tell' when the information truly falls short, not simply because a question takes several steps to work through.

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SECTION 1: DEDUCTIVE REASONING STATEMENTS (6 minutes, 7 questions)

1 Each question gives two or three short statements. Treat every statement as certainly true, however unusual it seems, and choose the ONE conclusion that must follow.

Q1. Every cake baked in the blue tin at Mabel's bakery is sold before noon. The lemon drizzle cake was baked in the blue tin today. Which of the following must be true?

- ☐ A) The lemon drizzle cake was not sold before noon
- ☐ B) All cakes at the bakery are sold before noon
- ☐ C) The lemon drizzle cake was not baked in the blue tin
- ☐ D) No cakes are ever baked in a tin other than blue
- ☐ E) The lemon drizzle cake was sold before noon

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2 (ORDERING AND RANKING) Q3. Chidi's stack of books is shorter than Grace's. Grace's stack is shorter than Priya's. Whose stack is the tallest?

- ☐ A) Chidi's
- ☐ B) Cannot tell
- ☐ C) Chidi's and Grace's are the same height
- ☐ D) Grace's
- ☐ E) Priya's

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3 (ORDERING AND RANKING) Q4. Four sprinters lined up for a photo. Sam finished ahead of Leo. Priya finished ahead of Meg. Who finished in first place?

- ☐ A) Leo
- ☐ B) Sam
- ☐ C) Cannot tell
- ☐ D) Priya
- ☐ E) Meg

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4 (ORDERING AND RANKING) Q5. Ollie is older than Freya. Freya is older than Reuben. Reuben is older than Ines. Who is the youngest?

- ☐ A) Ollie
- ☐ B) Freya
- ☐ C) Reuben
- ☐ D) Ines
- ☐ E) Cannot tell

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5 (ORDERING AND RANKING) Q6. At the quiz, four teams scored differently. The Falcons scored more than the Owls. The Kestrels scored more than the Falcons. The Owls scored more than the Robins. Which team scored the least?

- ☐ A) Kestrels
- ☐ B) Robins
- ☐ C) Falcons
- ☐ D) Owls
- ☐ E) Cannot tell

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6 (ORDERING AND RANKING) Q7. Five friends compared how many books they read over the summer. Amara read more than Ben. Cass read more than Amara. Divya read fewer than Ben. Ben read more than Elliot. Who read the most books?

- ☐ A) Cass
- ☐ B) Cannot tell
- ☐ C) Ben
- ☐ D) Divya or Elliot
- ☐ E) Amara

SECTION 3: TRUE OR FALSE FROM INFORMATION (6 minutes, 7 questions)

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7 Each question gives one or more facts about an everyday or general-knowledge situation. Treat every fact as certainly true and choose the ONE statement that must be true.

Q1. Fact 1: The blue whale is the largest animal on Earth.
Fact 2: The blue whale lives in the ocean.
Which statement must be true?

- ☐ A) The blue whale is not the largest animal on Earth
- ☐ B) All ocean animals are large
- ☐ C) The largest animal on Earth lives on land
- ☐ D) Cannot tell where the largest animal on Earth lives
- ☐ E) The largest animal on Earth lives in the ocean

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8 (TRUE OR FALSE FROM INFORMATION) Q2. Fact 1: Mount Everest is the tallest mountain above sea level.
Fact 2: Mount Everest is located in the Himalayas.
Which statement must be true?

- ☐ A) Cannot tell where the tallest mountain above sea level is located
- ☐ B) The tallest mountain above sea level is located in the Himalayas
- ☐ C) All mountains in the Himalayas are the tallest in the world
- ☐ D) Mount Everest is not the tallest mountain above sea level
- ☐ E) The tallest mountain above sea level is not located in the Himalayas

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9 (TRUE OR FALSE FROM INFORMATION) Q3. Fact 1: The Amazon carries more water than any other river in the world.
Fact 2: The Amazon flows through Brazil.
Which statement must be true?

- ☐ A) The Amazon is the longest river in the world
- ☐ B) The Amazon does not flow through Brazil
- ☐ C) Cannot tell which country the Amazon flows through
- ☐ D) Every river in Brazil carries more water than any other river
- ☐ E) The river that carries more water than any other flows through Brazil

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10 (TRUE OR FALSE FROM INFORMATION) Q4. Fact 1: Every planet in the solar system orbits the Sun.
Fact 2: Jupiter is a planet in the solar system.
Which statement must be true?

- ☐ A) Jupiter orbits the Sun
- ☐ B) Jupiter does not orbit the Sun
- ☐ C) Everything in the solar system orbits the Sun
- ☐ D) Jupiter is not a planet
- ☐ E) Cannot tell whether Jupiter orbits the Sun

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11 (TRUE OR FALSE FROM INFORMATION) Q5. Fact 1: Some reptiles are venomous.
Fact 2: A gecko is a reptile.
Which statement must be true?

- [ ] A) The gecko is venomous
- [ ] B) No geckos are reptiles
- [ ] C) All reptiles are venomous
- [ ] D) Cannot tell whether the gecko is venomous
- [ ] E) The gecko is not venomous

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12 (DEDUCTIVE REASONING STATEMENTS) Q2. Every train that departs from Platform 3 at Elmswood station stops at Redbridge. The 9:15 service departed from Platform 3. Which of the following must be true?

- [ ] A) No other platform's trains ever stop at Redbridge
- [ ] B) All trains at Elmswood stop at Redbridge
- [ ] C) The 9:15 service stopped at Redbridge
- [ ] D) The 9:15 service did not depart from Platform 3
- [ ] E) The 9:15 service did not stop at Redbridge

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13 (TRUE OR FALSE FROM INFORMATION) Q6. Fact 1: No mammal can breathe underwater without surfacing for air.
Fact 2: A dolphin is a mammal.
Which statement must be true?

- [ ] A) A dolphin is not a mammal
- [ ] B) All animals that breathe underwater are mammals
- [ ] C) A dolphin cannot breathe underwater without surfacing for air
- [ ] D) Cannot tell whether a dolphin needs to surface for air
- [ ] E) A dolphin can breathe underwater without surfacing for air

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Mark scheme · 3.55-5 Verbal Reasoning: Logic Set 5: 10-minute Pack

Question 1

E) The lemon drizzle cake was sold before noon - the lemon drizzle cake meets the stated condition (baked in the blue tin), so the rule applies directly. **B1**

Answer: E) The lemon drizzle cake was sold before noon

Question 2

E) Priya's - the chain Chidi, Grace, Priya (shortest to tallest) places Priya's stack at the top. **B1**

Answer: E) Priya's

Question 3

C) Cannot tell - the two statements form two separate chains (Sam-Leo and Priya-Meg) with no clue linking them together, so first place could be either Sam or Priya. **B1**

Answer: C) Cannot tell

Question 4

D) Ines - the chain Ollie, Freya, Reuben, Ines (oldest to youngest) places Ines at the bottom. **B1**

Answer: D) Ines

Question 5

B) Robins - combining the three clues gives the single chain Kestrels, Falcons, Owls, Robins (highest to lowest score), placing the Robins at the bottom. **B1**

Answer: B) Robins

Question 6

A) Cass - Cass read more than Amara, and Amara read more than Ben, who in turn read more than both Divya and Elliot, so Cass is above everyone else in the chain regardless of how Divya and Elliot compare to each other. **B1**

Answer: A) Cass

Question 7

E) The largest animal on Earth lives in the ocean - directly combining facts 1 and 2. **B1**

Answer: E) The largest animal on Earth lives in the ocean

Question 8

B) The tallest mountain above sea level is located in the Himalayas - directly combining facts 1 and 2. **B1**

Answer: B) The tallest mountain above sea level is located in the Himalayas

Question 9

E) The river that carries more water than any other flows through Brazil - directly combining facts 1 and 2. **B1**

Answer: E) The river that carries more water than any other flows through Brazil

Question 10

A) Jupiter orbits the Sun - Jupiter is a planet in the solar system, and every planet in the solar system orbits the Sun, so Jupiter orbits the Sun. **B1**

Answer: A) Jupiter orbits the Sun

Question 11

D) Cannot tell whether the gecko is venomous - 'some' reptiles being venomous says nothing about which reptiles, so whether this particular gecko is venomous cannot be determined either way. **B1**

Answer: D) Cannot tell whether the gecko is venomous

Question 12

C) The 9:15 service stopped at Redbridge - the 9:15 service meets the stated condition (departing from Platform 3), so the rule applies directly. **B1**

Answer: C) The 9:15 service stopped at Redbridge

Question 13

C) A dolphin cannot breathe underwater without surfacing for air - a dolphin is a mammal, and no mammal can breathe underwater without surfacing for air, so a dolphin cannot breathe underwater without surfacing for air. **B1**

Answer: C) A dolphin cannot breathe underwater without surfacing for air

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