3.44-2 Verbal Reasoning: Logic and Deduction Set 2: 10-minute Pack

Total Marks

GL ASSESSMENT EP.V38 · about 10 minutes

Name: _____ Date: ____ / ____ / _____

This is a 10-minute Verbal Reasoning depth practice on logic and deduction, styled on GL Assessment 11+ multiple-choice papers. It is a second, all-new set of reasoning questions on this topic. There are 36 questions across five sections: Short Deductive Statements, Ordering and Ranking, True or False from Information, Day and Time Puzzles, and Family Relationship Puzzles. Every question is worth 1 mark, for 36 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 spotting missing information. 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 (Short Deductive Statements). Statement 1: All the pupils in Mrs Patel's class play a musical instrument. Statement 2: Ade plays the violin. Which conclusion must be true? A) Ade is in Mrs Patel's class B) Ade is not in Mrs Patel's class C) All violin players are in Mrs Patel's class D) Cannot tell whether Ade is in Mrs Patel's class E) No pupils outside Mrs Patel's class play an instrument **Answer: D.** Statement 1 only tells us that being in Mrs Patel's class guarantees playing an instrument; it does not say that playing an instrument guarantees being in her class. Ade playing the violin is consistent with being in the class or not, so option D is correct. Option A wrongly assumes the rule works in reverse. Option B wrongly asserts the opposite with no support. Option C restates the same illicit reverse rule as a fact. Option E is an unsupported overgeneralisation. Apply this same careful approach throughout the pack, even as the sections move from short deductive statements to ordering and ranking, true-or-false judgements from short passages of facts, 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: SHORT DEDUCTIVE 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. Statement 1: All spaniels are dogs.
Statement 2: All dogs are mammals.
Which conclusion must be true?

- ☐ A) Cannot tell whether spaniels are mammals
- ☐ B) All mammals are spaniels
- ☐ C) No spaniels are mammals
- ☐ D) All dogs are spaniels
- ☐ E) All spaniels are mammals

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2 (ORDERING AND RANKING) Q10. Zara is younger than Leo. Leo is older than Mia. Mia is younger than Zara. Who is the oldest?

- ☐ A) Mia
- ☐ B) Zara and Leo are the same age
- ☐ C) Cannot tell
- ☐ D) Leo
- ☐ E) Zara

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3 (ORDERING AND RANKING) Q11. Five children sat a test. Priya scored higher than Kwame. Kwame scored higher than Freya. Freya scored higher than Oliver. Oliver scored higher than Ravi. Who scored the lowest mark?

- ☐ A) Priya
- ☐ B) Kwame
- ☐ C) Freya
- ☐ D) Oliver
- ☐ E) Ravi

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4 (ORDERING AND RANKING) Q12. In a queue, Daniel is in front of Grace. Grace is in front of Harriet. Isaac is behind Harriet but in front of Jack. Who is at the very back of the queue?

- [ ] A) Daniel
- [ ] B) Harriet
- [ ] C) Jack
- [ ] D) Isaac
- [ ] E) Grace

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5 (ORDERING AND RANKING) Q13. Four books are stacked on a shelf: a Dictionary, an Atlas, a Novel and a Thesaurus. The Dictionary is directly above the Atlas. The Novel is directly above the Thesaurus. The Atlas is directly above the Novel. What is the order from top to bottom?

- [ ] A) Atlas, Dictionary, Novel, Thesaurus
- [ ] B) Dictionary, Atlas, Novel, Thesaurus
- [ ] C) Thesaurus, Novel, Atlas, Dictionary
- [ ] D) Dictionary, Atlas, Thesaurus, Novel
- [ ] E) Dictionary, Novel, Atlas, Thesaurus

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6 (ORDERING AND RANKING) Q14. Five sprinters, Mo, Nia, Oscar, Priti and Quinn, finished a race in some order with no ties. Mo did not finish first or last. Nia finished immediately before Oscar. Priti finished first. Quinn finished immediately after Mo. Who finished last?

- [ ] A) Cannot tell for certain
- [ ] B) Mo
- [ ] C) Oscar
- [ ] D) Quinn
- [ ] E) Priti

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

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

Q15. Fact 1: Leeds is in Yorkshire.
Fact 2: Yorkshire is in England.
Which statement must be true?

- ☐ A) Leeds is not in England
- ☐ B) Cannot tell whether Leeds is in England
- ☐ C) Leeds is in England
- ☐ D) Yorkshire is not in England
- ☐ E) England is in Yorkshire

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8 (TRUE OR FALSE FROM INFORMATION) Q16. Fact 1: The library opens at 09:00 and closes at 17:00 on every weekday.
Fact 2: It is closed all day on Sundays.
Which statement must be true?

- ☐ A) The library is open at 10:00 on a Tuesday
- ☐ B) The library is closed at 10:00 on a Tuesday
- ☐ C) The library is open at 10:00 on a Sunday
- ☐ D) The library opens at 09:00 on Sundays
- ☐ E) Cannot tell whether the library is open at 10:00 on a Tuesday

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9 (TRUE OR FALSE FROM INFORMATION) Q17. Fact 1: Every pupil in Class 4 owns a bicycle.
Fact 2: Freddie owns a bicycle.
Which statement must be true?

- ☐ A) Freddie is in Class 4
- ☐ B) Freddie is not in Class 4
- ☐ C) All bicycle owners are in Class 4
- ☐ D) No pupils outside Class 4 own bicycles
- ☐ E) Cannot tell whether Freddie is in Class 4

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10 (TRUE OR FALSE FROM INFORMATION) Q18. Fact 1: There are 30 pupils in the class. Fact 2: 18 of them are girls.
Which statement must be true?

- ☐ A) There are more boys than girls in the class
- ☐ B) There are more girls than boys in the class
- ☐ C) Cannot tell how many boys are in the class
- ☐ D) There are equal numbers of boys and girls
- ☐ E) There are exactly 18 boys in the class

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11 (TRUE OR FALSE FROM INFORMATION) Q19. Fact 1: A train leaves London at 10:15. Fact 2: The journey to Bristol takes 1 hour 50 minutes.
Which statement must be true?

- ☐ A) The train arrives in Bristol at 11:50
- ☐ B) The train arrives in Bristol before 12:00
- ☐ C) The train arrives in Bristol at exactly 12:00
- ☐ D) The train arrives in Bristol after 12:00
- ☐ E) Cannot tell when the train arrives in Bristol

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12 (SHORT DEDUCTIVE STATEMENTS) Q2. Statement 1: All cats are animals.
Statement 2: Ruby is an animal.
Which conclusion must be true?

- ☐ A) No cats are animals
- ☐ B) Cannot tell whether Ruby is a cat
- ☐ C) Ruby is not a cat
- ☐ D) Ruby is a cat
- ☐ E) All animals are cats

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13 (TRUE OR FALSE FROM INFORMATION) Q20. Fact 1: All the shops on the high street close at 17:30, except the bakery.
Fact 2: The bakery closes at 13:00 on Wednesdays and at 17:30 on every other day.
Fact 3: Today is Wednesday.
Which statement must be true?

- ☐ A) The bakery is closed at 14:00 today
- ☐ B) Every shop on the high street closes at 13:00 today
- ☐ C) The bakery is closed all day today
- ☐ D) The bakery is open at 14:00 today
- ☐ E) Cannot tell when the bakery closes today

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Mark scheme · 3.44-2 Verbal Reasoning: Logic and Deduction Set 2: 10-minute Pack

Question 1

E) All spaniels are mammals - valid chain: spaniel -> dog -> mammal. **B1**

Answer: E) All spaniels are mammals

Question 2

D) Leo - the order Mia < Zara < Leo places Leo at the top. **B1**

Answer: D) Leo

Question 3

E) Ravi - the chain Priya > Kwame > Freya > Oliver > Ravi places Ravi at the bottom. **B1**

Answer: E) Ravi

Question 4

C) Jack - the order Daniel, Grace, Harriet, Isaac, Jack (front to back) places Jack at the back. **B1**

Answer: C) Jack

Question 5

B) Dictionary, Atlas, Novel, Thesaurus - the three 'directly above' clues chain into one fixed order. **B1**

Answer: B) Dictionary, Atlas, Novel, Thesaurus

Question 6

A) Cannot tell for certain - two different valid orders satisfy every clue, and they give different runners in last place. **B1**

Answer: A) Cannot tell for certain

Question 7

C) Leeds is in England - the chain Leeds -> Yorkshire -> England confirms this directly. **B1**

Answer: C) Leeds is in England

Question 8

A) The library is open at 10:00 on a Tuesday - Tuesday is a weekday, and 10:00 falls within the stated 09:00 to 17:00 opening hours. **B1**

Answer: A) The library is open at 10:00 on a Tuesday

Question 9

E) Cannot tell whether Freddie is in Class 4 - owning a bicycle does not prove Class 4 membership, since pupils in other classes could also own bicycles. **B1**

Answer: E) Cannot tell whether Freddie is in Class 4

Question 10

B) There are more girls than boys - 30 minus 18 gives 12 boys, and 18 girls is more than 12 boys. **B1**

Answer: B) There are more girls than boys in the class

Question 11

D) The train arrives in Bristol after 12:00 - 10:15 plus 1 hour 50 minutes is 12:05. **B1**

Answer: D) The train arrives in Bristol after 12:00

Question 12

B) Cannot tell whether Ruby is a cat - being an animal does not prove Ruby is a cat, since many non-cat animals exist. **B1**

Answer: B) Cannot tell whether Ruby is a cat

Question 13

A) The bakery is closed at 14:00 today - today is Wednesday, so the bakery closes at 13:00, before 14:00. **B1**

Answer: A) The bakery is closed at 14:00 today

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