



**Test Papers
Hub.**

NSW Selective Practice Paper 1

Thinking Skills

40 questions · 4 options each (A–D) · 40 minutes · No calculator

How to use this booklet

- There are 40 questions in this paper. For each question there are four possible answers, A, B, C and D. Choose the one correct answer.
- You will not lose marks for incorrect answers, so attempt all 40 questions.
- Calculators and dictionaries are not allowed. You have 40 minutes.

THINKING SKILLS — 40 QUESTIONS

Multiple choice · 40 minutes

Work through the questions in order, but do not spend too long on any one. Mark your best answer for every question, then check your work against the worked solutions.

1. Tom, Kai, Quin, Nia, Jade and Yara sit in a row of 6 chairs numbered 1 to 6 from left to right. Nia sits exactly three chairs away from Jade. Tom sits somewhere to the left of Jade. Kai sits somewhere to the left of Quin. Tom sits exactly two chairs away from Jade. Kai and Jade sit in neighbouring chairs. Yara sits somewhere to the left of Nia. Which statement **MUST be true?**

- A Yara sits in an odd-numbered chair
- B Nia sits in chair 6
- C Kai sits in an even-numbered chair
- D Tom sits in an even-numbered chair

2. Zoe, Ravi, Tom and Kai each drink a different drink and own a different pet. The person who drinks juice also owns a rabbit. The person who drinks milk also owns a dog. Either Zoe drinks milk or Ravi owns a rabbit (or both). Either Ravi drinks water or Tom owns a dog (or both). Either Ravi drinks tea or Tom owns a cat (or both). What does Tom drink?

- A tea
- B water
- C juice
- D milk

3. A trophy went missing. Exactly one of 6 people took it. Exactly 3 of the 6 statements are true. Pia says: "It was Ana." Ivan says: "It was not Gus." Gus says: "It was Ivan." Ana says: "It was not Gus." Kai says: "It was not Pia." Zoe says: "It was not Ivan." Who took it?

- A Ivan
- B Pia
- C Gus
- D Ana

4. In a made-up world: All rok are nod; all nod are lorp; all lorp are bix; some bix are not pim. Which statement MUST be true?

- A All nod are bix
- B All pim are nod
- C Some bix are not rok
- D Some rok are not lorp

5. On an island, every person either always tells the truth or always lies. Xavi says: "Exactly one of Sia and Zoe is a liar." Sia says: "Ivan is a liar." Zoe says: "Xavi is telling the truth." Ivan says: "Sia and Zoe are either both truthful or both liars." Who is telling the truth?

- A Sia
- B Ivan
- C Xavi
- D Zoe

6. Jade, Nia, Ana, Lena, Wen and Yara each live on a different floor of a building with 6 floors, numbered 1 (lowest) to 6 (highest). Jade and Yara live on neighbouring floors. Nia lives exactly two floors away from Lena. Ana lives exactly two floors away from Yara. Wen does not live on floor 1. Ana lives on a lower floor than Yara. Which statement MUST be true?

- A Lena lives on a lower floor than Nia
- B Lena lives on an even-numbered floor
- C Jade and Lena do not live on neighbouring floors
- D Jade lives on floor 3

7. Each of 7 people either always tells the truth or always lies. Max says: "Exactly five of us are lying." Pia says: "Exactly two of us are lying." Gus says: "Exactly three of us are lying." Kai says: "Exactly one of us is lying." Lena says: "Exactly seven of us are lying." Ben says: "Exactly four of us are lying." Ivan says: "Exactly six of us are lying." Who is telling the truth?

- A Pia
- B Ivan
- C Max
- D Gus

THINKING SKILLS — 40 QUESTIONS

Answers & worked solutions

Answer Key

1	C	2	A	3	B	4	A	5	B	6	C
7	B	8	A	9	B	10	D	11	A	12	B
13	C	14	C	15	A	16	B	17	B	18	D
19	C	20	D	21	C	22	C	23	D	24	A
25	C	26	D	27	D	28	A	29	B	30	B
31	D	32	D	33	A	34	C	35	D	36	A
37	A	38	B	39	C	40	D				

1. Tom, Kai, Quin, Nia, Jade and Yara sit in a row of 6 chairs numbered 1 to 6 from left to right. Nia sits exactly three chairs away from Jade. Tom sits somewhere to the left of Jade. Kai sits somewhere to the left of Quin. Tom sits exactly two chairs away from Jade. Kai and Jade sit in neighbouring chairs. Yara sits somewhere to the left of Nia. Which statement **MUST** be true? [Logical deduction from several clues]

Correct answer: C — Kai sits in an even-numbered chair

- Use every clue to cross out arrangements that break it. Exactly 4 arrangements fit all the clues (listed as person and chair number):
- Arrangement 1: Tom 1, Kai 2, Jade 3, Quin 4, Yara 5, Nia 6.
- Arrangement 2: Tom 1, Kai 2, Jade 3, Yara 4, Quin 5, Nia 6.
- Arrangement 3: Tom 1, Yara 2, Jade 3, Kai 4, Quin 5, Nia 6.
- Arrangement 4: Yara 1, Nia 2, Tom 3, Kai 4, Jade 5, Quin 6.
- The statement 'Kai sits in an even-numbered chair' is true in all 4 arrangements. Each of the other statements fails in at least one.
- Why the other options are wrong:
- A: This is true in 2 of the 4 arrangements but false in arrangement 2, so it does not **HAVE** to be true.
- B (Nia sits in chair 6): This is true in 3 of the 4 arrangements but false in arrangement 4, so it does not **HAVE** to be true.
- D: This is false in every possible arrangement, so it can never be true.

LOS: TS1

KEY TAKEAWAY

Use the most restrictive clues first to fix positions, then test each statement in every arrangement left.