3.21 Logic Deduction: 2-hour Pack

GL Assessment 11+ Verbal Reasoning · about 120 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

In each question you are given two or three statements. Treat every statement as TRUE, even if it seems unlikely, and use ONLY the information given (not outside knowledge or guesswork) to work out the answer. Some questions ask you to put people or things in order (for example, by height, age or speed); others give you a rule and ask what must follow from it. Read all the statements carefully before choosing your answer from options A to E. If the statements do not give enough information to be certain, choose the option that says so - do not pick the answer that merely seems likely.

Worked example. Ali is taller than Ben. Ben is taller than Cara. Who is the shortest? A) Ali B) Ben C) Cara D) Cannot tell E) Ali and Cara are the same height **Answer: C) Cara.** The two statements give a complete chain: Ali is taller than Ben, and Ben is taller than Cara. Putting this in order from tallest to shortest gives Ali, then Ben, then Cara, so Cara must be the shortest. There is enough information to be certain, so 'cannot tell' is wrong, and no equality was stated, so option E is also wrong.

1 Four cousins, Tara, Sana, Ravi and Leo, each like a different one of these: purple, red, blue and green. They each also enjoy a different one of these: football, swimming, tennis and drawing. Leo likes green. Sana likes purple. Tara does not like red. Which one does Ravi like?

- ☐ A) blue
- ☐ B) green
- ☐ C) Cannot tell
- ☐ D) purple
- ☐ E) red

---

2 Four friends, Luke, Will, Liam and Aisha, are all different in how clever they are. Luke is cleverer than Aisha. Liam is cleverer than Luke. Will is cleverer than Aisha. Which one of these statements must be true?

- ☐ A) Aisha is less clever than Liam.
- ☐ B) Will is cleverer than Liam.
- ☐ C) Liam is less clever than Luke.
- ☐ D) Liam is cleverer than Will.
- ☐ E) Luke is less clever than Will.

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3 Four children, Luke, Omar, Zara and Tara, each enjoy a different one of these: swimming, chess, drawing and tennis. Omar enjoys chess. Tara does not enjoy swimming. Luke enjoys drawing. Which one does Tara enjoy?

- ☐ A) drawing
- ☐ B) chess
- ☐ C) tennis
- ☐ D) swimming
- ☐ E) Cannot tell

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4 Four children, Rosa, Tara, Luke and Mia, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Rosa sits next to Tara. Tara sits immediately to the right of Mia. Luke does not sit in seat 1, counting from the left. Who sits in seat 4, counting from the left?

- ☐ A) Luke
- ☐ B) Cannot tell
- ☐ C) Tara
- ☐ D) Mia
- ☐ E) Rosa

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5 Four pupils, Max, Aisha, Amir and Yusuf, each enjoy a different one of these: football, drawing, swimming and chess. Yusuf does not enjoy football. Yusuf does not enjoy drawing. Amir does not enjoy football. Aisha enjoys swimming. Which one does Amir enjoy?

- ☐ A) chess
- ☐ B) drawing
- ☐ C) Cannot tell
- ☐ D) football
- ☐ E) swimming

---

6 Three pupils, Grace, Nadia and Priya, all run at different speeds. Nadia is slower than Grace. Nadia is faster than Priya. Who is the slowest?

- ☐ A) Nadia
- ☐ B) Grace
- ☐ C) Priya and Grace are the same
- ☐ D) Priya
- ☐ E) Cannot tell

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7 The football, coding, science, art and swimming clubs each meet on a different day, Monday to Friday. Each club meets once a week. The coding club meets on Tuesday. The football club meets on the day after the coding club. On which day does the football club meet?

- ☐ A) Thursday
- ☐ B) Monday
- ☐ C) Tuesday
- ☐ D) Cannot tell
- ☐ E) Wednesday

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8 Four children, Callum, Raj, Sana and Imran, each have a different one of these: a hamster, a dog, a parrot and a cat. Sana has a dog. Callum does not have a parrot. Raj does not have a cat. Which one does Raj have?

- ☐ A) Cannot tell
- ☐ B) a parrot
- ☐ C) a hamster
- ☐ D) a dog
- ☐ E) a cat

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9 Five cousins, Sam, Alex, Ruby, Maya and Kofi, all have different weights. Kofi is heavier than Alex. Maya is lighter than Kofi. Sam is lighter than Maya. Maya is heavier than Ruby. Who is the heaviest?

- ☐ A) Ruby
- ☐ B) Sam
- ☐ C) Alex
- ☐ D) Maya
- ☐ E) Kofi

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10 Four cousins, Ella, Rhys, Freya and Luke, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Rhys sits somewhere between Ella and Luke. Luke sits next to Rhys. Freya sits immediately to the right of Rhys. Which seat does Luke sit in?

- ☐ A) Seat 3
- ☐ B) Cannot tell
- ☐ C) Seat 1
- ☐ D) Seat 4
- ☐ E) Seat 2

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11 Three neighbours, Callum, Hana and Isla, all have different weights. Callum is lighter than Hana. Isla is heavier than Callum. Who is the lightest?

- [ ] A) Callum
- [ ] B) Callum and Isla are the same
- [ ] C) Isla
- [ ] D) Hana
- [ ] E) Cannot tell

---

12 Four cousins, Ravi, Ruby, Yusuf and Lucy, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Lucy sits next to Yusuf. Ravi does not sit at either end of the row. Yusuf sits somewhere to the left of Ruby. Which seat does Ravi sit in?

- [ ] A) Cannot tell
- [ ] B) Seat 1
- [ ] C) Seat 3
- [ ] D) Seat 4
- [ ] E) Seat 2

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13 The science, football, swimming, cooking and choir clubs each meet on a different day, Monday to Friday. Each club meets once a week. The science club meets on a day between those of the choir club and the swimming club. The swimming club meets earlier in the week than the science club. The football club meets on Wednesday. The swimming club meets on a day between those of the cooking club and the science club. On which day does the science club meet?

- [ ] A) Friday
- [ ] B) Tuesday
- [ ] C) Monday
- [ ] D) Thursday
- [ ] E) Wednesday

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14 Four cousins, Nathan, Sam, Nadia and Maya, are all different heights. Sam is taller than Maya. Nadia is taller than Maya. Nadia is shorter than Sam. Nathan is shorter than Nadia. Which one of these statements must be true?

- ☐ A) Sam is shorter than Nadia.
- ☐ B) Maya is taller than Nadia.
- ☐ C) Nathan is shorter than Maya.
- ☐ D) Maya is shorter than Nathan.
- ☐ E) Nathan is shorter than Sam.

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15 Four cousins, Ravi, Amir, Grace and Neil, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Grace sits somewhere to the left of Neil. Neil sits in seat 2, counting from the left. Who sits at the far left of the row?

- ☐ A) Amir
- ☐ B) Grace
- ☐ C) Neil
- ☐ D) Ravi
- ☐ E) Cannot tell

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16 Four pupils, Aisha, Ravi, Ruby and Finn, each eat a different one of these: pasta, pizza, rice and soup. Aisha eats pizza. Finn eats rice. Ruby does not eat pasta. Who eats pasta?

- ☐ A) Aisha
- ☐ B) Finn
- ☐ C) Cannot tell
- ☐ D) Ruby
- ☐ E) Ravi

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17 Four cousins, Yusuf, Dev, Alex and Ravi, are all different in strength. Alex is weaker than Dev. Ravi is stronger than Yusuf. Yusuf is stronger than Alex. Who is the weakest?

- ☐ A) Cannot tell
- ☐ B) Dev
- ☐ C) Yusuf
- ☐ D) Alex
- ☐ E) Ravi

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18 Four neighbours, Daisy, Ella, Cara and Priya, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Daisy sits somewhere to the left of Cara. Ella sits next to Priya. Priya sits somewhere between Cara and Ella. Ella sits somewhere to the left of Priya. Who sits at the far left of the row?

- [ ] A) Daisy
- [ ] B) Cannot tell
- [ ] C) Priya
- [ ] D) Cara
- [ ] E) Ella

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19 Four cousins, Priya, Holly, Ravi and Kim, each like a different one of these: yellow, blue, purple and green. Holly does not like yellow. Ravi does not like purple. Holly does not like blue. Which one does Priya like?

- [ ] A) yellow
- [ ] B) blue
- [ ] C) Cannot tell
- [ ] D) green
- [ ] E) purple

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20 Four neighbours, Neil, Callum, Tom and Ali, all have different amounts of money. Neil is poorer than Ali. Tom is poorer than Ali. Neil is richer than Callum. Which one of these statements must be true?

- [ ] A) Callum is poorer than Ali.
- [ ] B) Tom is poorer than Neil.
- [ ] C) Tom is richer than Callum.
- [ ] D) Tom is poorer than Callum.
- [ ] E) Neil is poorer than Callum.

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21 The cooking, drama, chess and choir clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The drama club meets on the day after the cooking club. The cooking club meets on Monday. Which club meets on Tuesday?

- [ ] A) The chess club
- [ ] B) The cooking club
- [ ] C) The choir club
- [ ] D) The drama club
- [ ] E) Cannot tell

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22 Four neighbours, Holly, Molly, Nathan and Jack, are all different heights. Molly is shorter than Jack. Molly is taller than Nathan. Molly is taller than Holly. Who is the second tallest?

- [ ] A) Holly
- [ ] B) Nathan
- [ ] C) Molly
- [ ] D) Cannot tell
- [ ] E) Jack

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23 Four children, Ben, Kofi, Nina and Kim, each have a different one of these: a parrot, a dog, a hamster and a cat. They each also enjoy a different one of these: swimming, drawing, chess and football. The child who has a hamster enjoys football. Kofi enjoys football. Which one does Kofi have?

- [ ] A) a parrot
- [ ] B) a cat
- [ ] C) Cannot tell
- [ ] D) a dog
- [ ] E) a hamster

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24 Three children, Tara, Freya and Nina, all have different weights. Nina is lighter than Tara. Tara is heavier than Freya. Who is the heaviest?

- [ ] A) Cannot tell
- [ ] B) Freya
- [ ] C) Nina
- [ ] D) Tara
- [ ] E) Tara and Nina are the same

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25 Four children, Isla, Beth, Ben and Pam, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Beth sits in seat 3, counting from the left. Isla sits immediately to the right of Beth. Which seat does Pam sit in?

- [ ] A) Cannot tell
- [ ] B) Seat 1
- [ ] C) Seat 3
- [ ] D) Seat 2
- [ ] E) Seat 4

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26 The drama, coding, choir, football and chess clubs each meet on a different day, Monday to Friday. Each club meets once a week. The choir club meets on a day between those of the chess club and the drama club. The football club meets on the day after the chess club. The football club meets on a day between those of the chess club and the choir club. The coding club does not meet on Monday. On which day does the football club meet?

- ☐ A) Cannot tell
- ☐ B) Tuesday
- ☐ C) Wednesday
- ☐ D) Monday
- ☐ E) Thursday

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27 Four cousins, Dev, Sue, Zara and Keira, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Sue sits next to Zara. Zara sits in seat 1, counting from the left. Which seat does Sue sit in?

- ☐ A) Cannot tell
- ☐ B) Seat 4
- ☐ C) Seat 2
- ☐ D) Seat 3
- ☐ E) Seat 1

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28 Four neighbours, Holly, Raj, Una and Leo, each play a different one of these: the guitar, the flute, the drums and the piano. Leo plays the drums. Holly does not play the guitar. Raj plays the flute. Who plays the guitar?

- ☐ A) Leo
- ☐ B) Raj
- ☐ C) Una
- ☐ D) Cannot tell
- ☐ E) Holly

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29 The swimming, dance, football and cooking clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The cooking club meets on a day between those of the dance club and the swimming club. The football club meets earlier in the week than the cooking club. The football club meets on a day between those of the cooking club and the swimming club. On which day does the dance club meet?

- ☐ A) Thursday
- ☐ B) Wednesday
- ☐ C) Monday
- ☐ D) Tuesday
- ☐ E) Cannot tell

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30 Four cousins, Alex, Freya, Omar and Lena, are all different ages. Freya is younger than Lena. Omar is younger than Alex. Freya is older than Omar. Which one of these statements must be true?

- ☐ A) Freya is older than Alex.
- ☐ B) Omar is older than Lena.
- ☐ C) Alex is younger than Omar.
- ☐ D) Omar is younger than Lena.
- ☐ E) Freya is younger than Alex.

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31 Four neighbours, Yusuf, Anya, Molly and Aisha, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Aisha sits somewhere between Anya and Molly. Anya sits somewhere between Aisha and Yusuf. Molly sits somewhere to the left of Aisha. Which seat does Anya sit in?

- ☐ A) Seat 2
- ☐ B) Seat 3
- ☐ C) Seat 4
- ☐ D) Cannot tell
- ☐ E) Seat 1

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32 Four neighbours, Alex, Grace, Kofi and Leo, each have a different one of these: a cat, a rabbit, a hamster and a dog. Leo has a cat. Kofi has a hamster. Grace has a dog. Which one does Alex have?

- [ ] A) a rabbit
- [ ] B) a dog
- [ ] C) a cat
- [ ] D) Cannot tell
- [ ] E) a hamster

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33 Four cousins, Priya, Imran, Leo and Hana, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Hana sits next to Priya. Hana does not sit in seat 2, counting from the left. Priya sits somewhere to the left of Imran. Which seat does Priya sit in?

- [ ] A) Cannot tell
- [ ] B) Seat 2
- [ ] C) Seat 4
- [ ] D) Seat 3
- [ ] E) Seat 1

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34 Four cousins, Theo, Neil, Hana and Liam, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Liam does not sit in seat 1, counting from the left. Liam sits somewhere to the left of Theo. Hana sits somewhere to the left of Neil. Who sits at the far left of the row?

- [ ] A) Cannot tell
- [ ] B) Liam
- [ ] C) Hana
- [ ] D) Neil
- [ ] E) Theo

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35 Three neighbours, Nadia, Amir and Ben, are all different ages. Amir is younger than Ben. Nadia is older than Amir. Who is the youngest?

- [ ] A) Ben and Nadia are the same
- [ ] B) Nadia
- [ ] C) Cannot tell
- [ ] D) Ben
- [ ] E) Amir

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36 The choir, football, swimming and art clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The swimming club meets earlier in the week than the choir club. The art club meets on Tuesday. The football club meets earlier in the week than the choir club. On which day does the choir club meet?

- ☐ A) Monday
- ☐ B) Tuesday
- ☐ C) Thursday
- ☐ D) Wednesday
- ☐ E) Cannot tell

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37 Five pupils, Cara, Holly, Maya, Luke and Aisha, all have different amounts of money. Cara is poorer than Aisha. Maya is richer than Luke. Luke is poorer than Cara. Luke is poorer than Holly. Who is the poorest?

- ☐ A) Cara
- ☐ B) Maya
- ☐ C) Aisha
- ☐ D) Holly
- ☐ E) Luke

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38 Three pupils, Kofi, Rhys and Jade, are all different in strength. Rhys is stronger than Kofi. Jade is stronger than Kofi. Who is the weakest?

- ☐ A) Rhys and Jade are the same
- ☐ B) Cannot tell
- ☐ C) Jade
- ☐ D) Kofi
- ☐ E) Rhys

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39 Four neighbours, Ethan, Ella, Mia and Finn, each eat a different one of these: salad, rice, pizza and soup. They each also play a different one of these: the drums, the guitar, the flute and the violin. Ella eats pizza. Mia plays the drums. The neighbour who eats rice plays the violin. The neighbour who eats salad plays the flute. Who plays the guitar?

- ☐ A) Ella
- ☐ B) Finn
- ☐ C) Cannot tell
- ☐ D) Mia
- ☐ E) Ethan

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40 Five pupils, Liam, Pam, Finn, Sana and Hana, are all different heights. Liam is taller than Finn. Finn is taller than Pam. Sana is shorter than Liam. Hana is taller than Liam. Who is the shortest?

- [ ] A) Hana
- [ ] B) Liam
- [ ] C) Sana
- [ ] D) Cannot tell
- [ ] E) Finn

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41 Four friends, Finn, Freya, Lucy and Anya, all have different amounts of money. Lucy is richer than Anya. Anya is poorer than Finn. Finn is poorer than Freya. Who is the poorest?

- [ ] A) Freya
- [ ] B) Cannot tell
- [ ] C) Lucy
- [ ] D) Finn
- [ ] E) Anya

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42 The dance, cooking, coding and swimming clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The cooking club meets on the day after the swimming club. The coding club meets on Tuesday. Which club meets on Wednesday?

- [ ] A) The cooking club
- [ ] B) The coding club
- [ ] C) The swimming club
- [ ] D) The dance club
- [ ] E) Cannot tell

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43 The dance, science, coding, art and football clubs each meet on a different day, Monday to Friday. Each club meets once a week. The art club meets on a day between those of the coding club and the dance club. The dance club meets on a day between those of the football club and the science club. The football club meets on the day after the art club. The coding club meets on Monday. Which club meets on Friday?

- [ ] A) The dance club
- [ ] B) The science club
- [ ] C) The coding club
- [ ] D) The art club
- [ ] E) The football club

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44 Four friends, Jade, Zara, Luke and Beth, are all different in how clever they are. Jade is less clever than Beth. Luke is less clever than Jade. Zara is cleverer than Beth. Who is the second cleverest?

- ☐ A) Zara
- ☐ B) Jade
- ☐ C) Luke
- ☐ D) Cannot tell
- ☐ E) Beth

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45 Four pupils, Omar, Rhys, Eli and Una, all have different amounts of money. Omar is richer than Eli. Una is poorer than Omar. Omar is poorer than Rhys. Rhys is richer than Eli. Which one of these statements must be true?

- ☐ A) Eli is poorer than Una.
- ☐ B) Rhys is poorer than Una.
- ☐ C) Eli is richer than Una.
- ☐ D) Una is poorer than Rhys.
- ☐ E) Omar is richer than Rhys.

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46 The swimming, dance, choir, drama and football clubs each meet on a different day, Monday to Friday. Each club meets once a week. The choir club meets on a day between those of the football club and the swimming club. The choir club meets on the day after the swimming club. The swimming club meets on a day between those of the choir club and the dance club. The drama club meets on a day between those of the choir club and the dance club. On which day does the choir club meet?

- ☐ A) Monday
- ☐ B) Thursday
- ☐ C) Wednesday
- ☐ D) Friday
- ☐ E) Cannot tell

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47 The football, cooking, coding and science clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The science club meets earlier in the week than the coding club. The cooking club meets earlier in the week than the football club. The science club meets on Wednesday. Which club meets on Monday?

- [ ] A) The football club
- [ ] B) Cannot tell
- [ ] C) The cooking club
- [ ] D) The coding club
- [ ] E) The science club

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48 Four neighbours, Quinn, Lucy, Jade and Sue, are all different heights. Quinn is shorter than Jade. Sue is taller than Jade. Sue is shorter than Lucy. Who is the second tallest?

- [ ] A) Lucy
- [ ] B) Cannot tell
- [ ] C) Sue
- [ ] D) Quinn
- [ ] E) Jade

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49 Four pupils, Ravi, Faye, Lena and Una, are all different in how clever they are. Una is less clever than Faye. Una is less clever than Lena. Faye is less clever than Ravi. Which one of these statements must be true?

- [ ] A) Ravi is less clever than Lena.
- [ ] B) Ravi is cleverer than Una.
- [ ] C) Una is cleverer than Lena.
- [ ] D) Una is cleverer than Ravi.
- [ ] E) Ravi is cleverer than Lena.

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50 Four neighbours, Chloe, Olive, Kim and Dev, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Olive sits somewhere to the left of Kim. Chloe does not sit in seat 4, counting from the left. Dev sits immediately to the right of Kim. Which seat does Dev sit in?

- [ ] A) Seat 4
- [ ] B) Cannot tell
- [ ] C) Seat 2
- [ ] D) Seat 1
- [ ] E) Seat 3

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51 Four pupils, Tara, Tess, Lucy and Daisy, all run at different speeds. Tess is faster than Daisy. Lucy is slower than Daisy. Daisy is faster than Tara. Who is the fastest?

- [ ] A) Tara
- [ ] B) Cannot tell
- [ ] C) Lucy
- [ ] D) Daisy
- [ ] E) Tess

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52 Four friends, Lucy, Eli, Maya and Joe, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Eli sits in seat 3, counting from the left. Eli sits next to Joe. Joe sits next to Lucy. Who sits at the far left of the row?

- [ ] A) Maya
- [ ] B) Joe
- [ ] C) Cannot tell
- [ ] D) Eli
- [ ] E) Lucy

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53 Five pupils, Callum, Nina, Cara, Omar and Maya, sit in a row of 5 seats, one in each seat. The seats are numbered 1 to 5 from the left. Nina sits somewhere between Cara and Maya. Callum sits somewhere to the left of Nina. Nina does not sit in seat 3, counting from the left. Which seat does Nina sit in?

- [ ] A) Seat 1
- [ ] B) Cannot tell
- [ ] C) Seat 4
- [ ] D) Seat 5
- [ ] E) Seat 2

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54 Four pupils, Theo, Isla, Holly and Jade, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Isla sits in seat 2, counting from the left. Jade sits somewhere between Holly and Theo. Who sits in seat 3, counting from the left?

- [ ] A) Cannot tell
- [ ] B) Theo
- [ ] C) Holly
- [ ] D) Jade
- [ ] E) Isla

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55 Three neighbours, Neil, Tom and Noah, are all different heights. Noah is shorter than Neil. Tom is shorter than Noah. Who is the tallest?

- [ ] A) Noah
- [ ] B) Neil
- [ ] C) Neil and Noah are the same
- [ ] D) Cannot tell
- [ ] E) Tom

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56 Four cousins, Nathan, Sam, Tara and Pam, each drink a different one of these: cocoa, water, tea and juice. They each also have a different one of these: a dog, a parrot, a hamster and a rabbit. The cousin who drinks water has a rabbit. Pam has a dog. Tara drinks water. Sam has a parrot. Who has a hamster?

- [ ] A) Nathan
- [ ] B) Sam
- [ ] C) Tara
- [ ] D) Pam
- [ ] E) Cannot tell

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57 Three friends, Quinn, Finn and Neil, all have different weights. Quinn is heavier than Finn. Quinn is heavier than Neil. Who is the heaviest?

- [ ] A) Finn and Quinn are the same
- [ ] B) Neil
- [ ] C) Finn
- [ ] D) Cannot tell
- [ ] E) Quinn

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58 The choir, drama, cooking and art clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The art club meets earlier in the week than the choir club. The cooking club meets on Tuesday. The drama club meets on Wednesday. On which day does the art club meet?

- [ ] A) Tuesday
- [ ] B) Monday
- [ ] C) Thursday
- [ ] D) Wednesday
- [ ] E) Cannot tell

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59 Four neighbours, Tara, Luke, Will and Kofi, each eat a different one of these: pizza, salad, soup and rice. They each also have a different one of these: a cat, a parrot, a hamster and a dog. The neighbour who eats rice has a parrot. Tara has a hamster. Will does not eat salad. Who eats soup?

- [ ] A) Tara
- [ ] B) Will
- [ ] C) Cannot tell
- [ ] D) Kofi
- [ ] E) Luke

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60 Four pupils, Nadia, Rhys, Ruby and Nina, are all different ages. Nina is older than Rhys. Ruby is older than Nadia. Nina is older than Ruby. Who is the oldest?

- [ ] A) Nina
- [ ] B) Ruby
- [ ] C) Rhys
- [ ] D) Cannot tell
- [ ] E) Nadia

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61 Four pupils, Imran, Tara, Freya and Yusuf, are all different ages. Imran is younger than Yusuf. Imran is younger than Freya. Yusuf is younger than Tara. Who is the youngest?

- [ ] A) Yusuf
- [ ] B) Cannot tell
- [ ] C) Imran
- [ ] D) Freya
- [ ] E) Tara

---

62 The art, cooking, chess, drama and science clubs each meet on a different day, Monday to Friday. Each club meets once a week. The cooking club meets earlier in the week than the chess club. The science club does not meet on Tuesday. The art club meets on the day after the chess club. The chess club meets on the day after the science club. Which club meets on Thursday?

- [ ] A) The science club
- [ ] B) The chess club
- [ ] C) The drama club
- [ ] D) The art club
- [ ] E) The cooking club

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63 The cooking, dance, choir and art clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The choir club meets on Wednesday. The choir club meets on the day before or the day after the dance club. The art club meets earlier in the week than the cooking club. Which club meets on Thursday?

- ☐ A) The choir club
- ☐ B) The art club
- ☐ C) The dance club
- ☐ D) Cannot tell
- ☐ E) The cooking club

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64 Four friends, Tom, Nathan, Finn and Isla, each enjoy a different one of these: drawing, football, tennis and swimming. Finn enjoys football. Tom enjoys drawing. Who enjoys tennis?

- ☐ A) Finn
- ☐ B) Cannot tell
- ☐ C) Nathan
- ☐ D) Isla
- ☐ E) Tom

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65 The coding, choir, drama and swimming clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The choir club meets on Tuesday. The swimming club meets on a day between those of the choir club and the coding club. On which day does the swimming club meet?

- ☐ A) Thursday
- ☐ B) Tuesday
- ☐ C) Wednesday
- ☐ D) Monday
- ☐ E) Cannot tell

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66 The drama, cooking, football, choir and dance clubs each meet on a different day, Monday to Friday. Each club meets once a week. The choir club meets on a day between those of the cooking club and the dance club. The drama club meets on the day after the football club. The dance club meets on a day between those of the cooking club and the drama club. The dance club meets earlier in the week than the drama club. Which club meets on Friday?

- ☐ A) The dance club
- ☐ B) Cannot tell
- ☐ C) The football club
- ☐ D) The cooking club
- ☐ E) The drama club

---

67 Four cousins, Nadia, Callum, Una and Omar, all run at different speeds. Callum is slower than Una. Una is slower than Nadia. Omar is faster than Callum. Omar is slower than Nadia. Which one of these statements must be true?

- ☐ A) Nadia is slower than Callum.
- ☐ B) Una is faster than Omar.
- ☐ C) Omar is faster than Una.
- ☐ D) Nadia is faster than Callum.
- ☐ E) Callum is faster than Omar.

---

68 Three children, Pam, Ali and Noah, are all different ages. Noah is older than Pam. Pam is older than Ali. Who is the oldest?

- ☐ A) Noah
- ☐ B) Pam and Noah are the same
- ☐ C) Ali
- ☐ D) Pam
- ☐ E) Cannot tell

---

69 Four neighbours, Nina, Faye, Aisha and Grace, each drink a different one of these: milk, water, cocoa and juice. Faye drinks cocoa. Aisha does not drink juice. Grace does not drink juice. Who drinks juice?

- ☐ A) Aisha
- ☐ B) Cannot tell
- ☐ C) Nina
- ☐ D) Grace
- ☐ E) Faye

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70 Four friends, Keira, Neil, Zara and Jade, all run at different speeds. Zara is slower than Neil. Neil is faster than Jade. Who is the second slowest?

- [ ] A) Keira
- [ ] B) Jade
- [ ] C) Zara
- [ ] D) Neil
- [ ] E) Cannot tell

---

71 Three friends, Faye, Chloe and Sue, are all different in how clever they are. Sue is cleverer than Chloe. Faye is cleverer than Sue. Who is the cleverest?

- [ ] A) Faye
- [ ] B) Cannot tell
- [ ] C) Chloe
- [ ] D) Sue
- [ ] E) Chloe and Faye are the same

---

72 Four pupils, Neil, Kim, Keira and Mia, each enjoy a different one of these: tennis, drawing, football and chess. Mia does not enjoy football. Kim enjoys tennis. Neil enjoys drawing. Which one does Keira enjoy?

- [ ] A) Cannot tell
- [ ] B) chess
- [ ] C) tennis
- [ ] D) football
- [ ] E) drawing

---

73 The drama, cooking, chess and art clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The cooking club meets on Tuesday. The cooking club meets earlier in the week than the chess club. The cooking club meets earlier in the week than the drama club. On which day does the art club meet?

- [ ] A) Tuesday
- [ ] B) Monday
- [ ] C) Wednesday
- [ ] D) Thursday
- [ ] E) Cannot tell

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74 Three neighbours, Keira, Imran and Ben, are all different in how clever they are. Keira is cleverer than Ben. Keira is cleverer than Imran. Who is the cleverest?

- [ ] A) Imran
- [ ] B) Cannot tell
- [ ] C) Keira
- [ ] D) Keira and Ben are the same
- [ ] E) Ben

---

75 Five cousins, Tess, Tom, Daisy, Sue and Nathan, sit in a row of 5 seats, one in each seat. The seats are numbered 1 to 5 from the left. Sue sits in seat 5, counting from the left. Tom sits somewhere between Nathan and Sue. Sue sits immediately to the right of Tess. Which seat does Daisy sit in?

- [ ] A) Seat 3
- [ ] B) Seat 4
- [ ] C) Seat 2
- [ ] D) Seat 1
- [ ] E) Cannot tell

---

76 The football, cooking, swimming and art clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The swimming club meets earlier in the week than the cooking club. The art club meets on a day between those of the cooking club and the swimming club. The swimming club meets on a day between those of the cooking club and the football club. On which day does the swimming club meet?

- [ ] A) Thursday
- [ ] B) Monday
- [ ] C) Wednesday
- [ ] D) Tuesday
- [ ] E) Cannot tell

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77 Four children, Lena, Freya, Rosa and Hana, each play a different one of these: the piano, the violin, the guitar and the flute. Hana plays the flute. Lena plays the piano. Which one does Rosa play?

- ☐ A) the violin
- ☐ B) the piano
- ☐ C) the flute
- ☐ D) the guitar
- ☐ E) Cannot tell

---

78 Four friends, Grace, Omar, Mia and Beth, all have different weights. Beth is lighter than Omar. Mia is lighter than Grace. Grace is heavier than Omar. Which one of these statements must be true?

- ☐ A) Beth is lighter than Mia.
- ☐ B) Omar is lighter than Beth.
- ☐ C) Mia is lighter than Beth.
- ☐ D) Grace is heavier than Beth.
- ☐ E) Omar is heavier than Mia.

---

79 Five pupils, Omar, Nadia, Jade, Keira and Grace, are all different heights. Grace is shorter than Jade. Grace is shorter than Nadia. Who is the tallest?

- ☐ A) Omar
- ☐ B) Cannot tell
- ☐ C) Nadia
- ☐ D) Grace
- ☐ E) Jade

---

80 Four pupils, Noah, Max, Daisy and Maya, each play a different one of these: the violin, the flute, the guitar and the drums. Max plays the drums. Maya does not play the flute. Daisy plays the violin. Who plays the flute?

- ☐ A) Cannot tell
- ☐ B) Maya
- ☐ C) Noah
- ☐ D) Daisy
- ☐ E) Max

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81 Three pupils, Tom, Neil and Alex, all run at different speeds. Tom is faster than Alex. Alex is slower than Neil. Who is the slowest?

- [ ] A) Cannot tell
- [ ] B) Tom and Alex are the same
- [ ] C) Tom
- [ ] D) Alex
- [ ] E) Neil

---

82 Four children, Daisy, Chloe, Una and Leo, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Una sits somewhere between Chloe and Daisy. Chloe sits immediately to the right of Leo. Leo sits somewhere to the left of Una. Who sits at the far left of the row?

- [ ] A) Chloe
- [ ] B) Leo
- [ ] C) Daisy
- [ ] D) Una
- [ ] E) Cannot tell

---

83 Four children, Quinn, Eli, Yusuf and Omar, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Omar sits somewhere between Eli and Quinn. Yusuf sits in seat 3, counting from the left. Who sits in seat 2, counting from the left?

- [ ] A) Omar
- [ ] B) Cannot tell
- [ ] C) Yusuf
- [ ] D) Eli
- [ ] E) Quinn

---

84 Three cousins, Kofi, Liam and Tess, are all different ages. Tess is older than Liam. Tess is older than Kofi. Who is the oldest?

- [ ] A) Kofi
- [ ] B) Cannot tell
- [ ] C) Liam
- [ ] D) Kofi and Tess are the same
- [ ] E) Tess

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85 Four neighbours, Sana, Pam, Ali and Luke, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Ali sits immediately to the right of Luke. Ali sits in seat 2, counting from the left. Who sits at the far left of the row?

- ☐ A) Luke
- ☐ B) Pam
- ☐ C) Sana
- ☐ D) Cannot tell
- ☐ E) Ali

---

86 Five friends, Eli, Alex, Anya, Liam and Tara, are all different in how clever they are. Liam is less clever than Tara. Tara is cleverer than Anya. Tara is cleverer than Alex. Eli is less clever than Tara. Who is the cleverest?

- ☐ A) Liam
- ☐ B) Alex
- ☐ C) Anya
- ☐ D) Tara
- ☐ E) Eli

---

87 Three children, Holly, Tara and Ella, all run at different speeds. Ella is slower than Holly. Holly is slower than Tara. Who is the fastest?

- ☐ A) Cannot tell
- ☐ B) Holly
- ☐ C) Tara and Ella are the same
- ☐ D) Ella
- ☐ E) Tara

---

88 Sam scored more than Tia. Sam scored more than Uma. Vik scored fewer than Uma. Who scored the fewest?

- ☐ A) Sam
- ☐ B) Cannot tell
- ☐ C) Uma
- ☐ D) Tia
- ☐ E) Vik

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89 The drama, football, science and cooking clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The football club meets on a day between those of the drama club and the science club. The football club meets on the day after the science club. The cooking club meets on the day after the drama club. On which day does the science club meet?

- [ ] A) Thursday
- [ ] B) Monday
- [ ] C) Tuesday
- [ ] D) Wednesday
- [ ] E) Cannot tell

---

90 Three cousins, Grace, Una and Ruby, are all different heights. Una is taller than Grace. Ruby is taller than Grace. Who is the shortest?

- [ ] A) Una and Grace are the same
- [ ] B) Grace
- [ ] C) Una
- [ ] D) Cannot tell
- [ ] E) Ruby

---

91 Four cousins, Beth, Sue, Olive and Ravi, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Ravi sits somewhere between Beth and Olive. Beth sits somewhere to the left of Sue. Sue does not sit in seat 2, counting from the left. Which seat does Ravi sit in?

- [ ] A) Seat 1
- [ ] B) Seat 4
- [ ] C) Cannot tell
- [ ] D) Seat 2
- [ ] E) Seat 3

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92 Four neighbours, Molly, Zara, Tess and Sana, each play a different one of these: the violin, the flute, the drums and the guitar. They each also enjoy a different one of these: tennis, swimming, football and drawing. Tess plays the flute. Zara enjoys drawing. Molly plays the drums. The neighbour who plays the guitar enjoys tennis. Which one does Sana enjoy?

- ☐ A) tennis
- ☐ B) Cannot tell
- ☐ C) swimming
- ☐ D) football
- ☐ E) drawing

---

93 Four children, Pam, Quinn, Hana and Kim, each have a different one of these: a hamster, a parrot, a cat and a dog. Pam has a dog. Hana has a hamster. Kim does not have a hamster. Which one does Kim have?

- ☐ A) a parrot
- ☐ B) Cannot tell
- ☐ C) a dog
- ☐ D) a hamster
- ☐ E) a cat

---

94 The coding, choir, chess and football clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The choir club meets on the day before or the day after the football club. The football club meets earlier in the week than the chess club. The coding club meets on the day before or the day after the football club. Which club meets on Tuesday?

- ☐ A) The chess club
- ☐ B) The choir club
- ☐ C) Cannot tell
- ☐ D) The football club
- ☐ E) The coding club

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95 Four cousins, Sue, Daisy, Cara and Keira, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Daisy sits in seat 3, counting from the left. Keira sits somewhere to the left of Sue. Cara sits somewhere to the left of Keira. Who sits at the far left of the row?

- ☐ A) Cara
- ☐ B) Daisy
- ☐ C) Sue
- ☐ D) Keira
- ☐ E) Cannot tell

---

96 Four pupils, Jack, Neil, Alex and Sam, are all different in strength. Alex is weaker than Neil. Jack is stronger than Sam. Alex is weaker than Sam. Which one of these statements must be true?

- ☐ A) Sam is weaker than Alex.
- ☐ B) Alex is stronger than Jack.
- ☐ C) Neil is weaker than Jack.
- ☐ D) Jack is weaker than Neil.
- ☐ E) Jack is stronger than Alex.

---

97 Three neighbours, Freya, Rhys and Omar, are all different in how clever they are. Rhys is cleverer than Omar. Freya is cleverer than Rhys. Who is the cleverest?

- ☐ A) Rhys
- ☐ B) Omar and Rhys are the same
- ☐ C) Freya
- ☐ D) Cannot tell
- ☐ E) Omar

---

98 The swimming, choir, football, science and coding clubs each meet on a different day, Monday to Friday. Each club meets once a week. The choir club does not meet on Monday or Friday. The science club does not meet on Friday. On which day does the coding club meet?

- ☐ A) Friday
- ☐ B) Cannot tell
- ☐ C) Wednesday
- ☐ D) Monday
- ☐ E) Thursday

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99 The football, science, choir and swimming clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The football club does not meet on Monday. The choir club meets earlier in the week than the swimming club. The swimming club meets on a day between those of the choir club and the science club. Which club meets on Monday?

- ☐ A) Cannot tell
- ☐ B) The swimming club
- ☐ C) The football club
- ☐ D) The science club
- ☐ E) The choir club

---

100 Four children, Jade, Tom, Sam and Tess, are all different heights. Jade is shorter than Sam. Tom is taller than Sam. Tess is taller than Tom. Who is the shortest?

- ☐ A) Tess
- ☐ B) Sam
- ☐ C) Tom
- ☐ D) Jade
- ☐ E) Cannot tell

---

101 The swimming, chess, dance and art clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The art club meets on a day between those of the chess club and the dance club. The chess club meets earlier in the week than the swimming club. The art club meets on the day after the chess club. On which day does the art club meet?

- ☐ A) Monday
- ☐ B) Cannot tell
- ☐ C) Tuesday
- ☐ D) Thursday
- ☐ E) Wednesday

---

102 Ivy is the same age as Jon. Jon is older than Kai. Lou is older than Ivy. Who is the youngest?

- ☐ A) Cannot tell
- ☐ B) Lou
- ☐ C) Kai
- ☐ D) Jon
- ☐ E) Ivy

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103 Statement 1: If Ana finishes her homework, she plays outside.
Statement 2: If Ana plays outside, she gets muddy.
Statement 3: Ana finishes her homework.
Which conclusion must be true?

- [ ] A) Ana only gets muddy when she has finished her homework.
- [ ] B) Ana gets muddy.
- [ ] C) Cannot tell
- [ ] D) Ana does not play outside.
- [ ] E) Ana does not get muddy.

---

104 Statement 1: No cat in the shop is white.
Statement 2: Some of the animals in the shop are cats.
Which conclusion must be true?

- [ ] A) All the animals in the shop are cats.
- [ ] B) Some cats in the shop are white.
- [ ] C) Cannot tell
- [ ] D) Some of the animals in the shop are not white.
- [ ] E) No animal in the shop is white.

---

105 Owen is heavier than Pia. Quinn is heavier than Pia. Ruth is lighter than Pia. Who is the heaviest?

- [ ] A) Pia
- [ ] B) Quinn
- [ ] C) Ruth
- [ ] D) Cannot tell
- [ ] E) Owen

---

106 Mia is Jo's mother. Jo is Sam's father. Sam is Tia's mother. How is Mia related to Tia?

- [ ] A) Aunt
- [ ] B) Great-grandmother
- [ ] C) Cannot tell
- [ ] D) Mother
- [ ] E) Grandmother

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107 Amir, Beth, Cara and Dev each have a different pet: a cat, a dog, a fish or a rabbit. Amir has either the fish or the rabbit. Beth does not have the dog. Dev does not have the dog. Who has the dog?

- [ ] A) Dev
- [ ] B) Amir
- [ ] C) Cara
- [ ] D) Cannot tell
- [ ] E) Beth

---

108 Yara is taller than Wren. Wren is taller than Xavi. Zac is shorter than Wren. Zac is taller than Xavi. Who is the second shortest?

- [ ] A) Cannot tell
- [ ] B) Xavi
- [ ] C) Yara
- [ ] D) Zac
- [ ] E) Wren

---

109 Priya is taller than Ollie. Sian is shorter than Ollie. Rhys is taller than Priya. Tomas is shorter than Sian. Who is in the middle when they stand in order of height?

- [ ] A) Tomas
- [ ] B) Ollie
- [ ] C) Priya
- [ ] D) Sian
- [ ] E) Rhys

---

110 Zara is older than Amara. Amara is older than Oliver. Who is neither the oldest nor the youngest?

- [ ] A) Amara
- [ ] B) Zara
- [ ] C) Oliver
- [ ] D) Cannot tell
- [ ] E) Zara and Oliver are the same age

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111 Four children, Freya, Kim, Omar and Yusuf, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Yusuf does not sit at either end of the row. Omar sits somewhere to the left of Kim. Kim sits somewhere between Freya and Omar. Which seat does Freya sit in?

- [ ] A) Seat 1
- [ ] B) Seat 2
- [ ] C) Cannot tell
- [ ] D) Seat 3
- [ ] E) Seat 4

---

112 Four children, Imran, Anya, Rosa and Hana, each eat a different one of these: rice, pizza, soup and pasta. Hana eats pizza. Imran does not eat rice. Anya does not eat rice. Which one does Rosa eat?

- [ ] A) soup
- [ ] B) rice
- [ ] C) pizza
- [ ] D) pasta
- [ ] E) Cannot tell

---

113 The choir, coding, chess, football and science clubs each meet on a different day, Monday to Friday. Each club meets once a week. The football club meets on a day between those of the choir club and the coding club. The football club meets on a day between those of the chess club and the science club. On which day does the football club meet?

- [ ] A) Monday
- [ ] B) Wednesday
- [ ] C) Cannot tell
- [ ] D) Friday
- [ ] E) Tuesday

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114 Four cousins, Daisy, Cara, Yusuf and Dev, are all different in how clever they are. Dev is cleverer than Daisy. Dev is less clever than Cara. Dev is cleverer than Yusuf. Who is the second cleverest?

- [ ] A) Cara
- [ ] B) Cannot tell
- [ ] C) Daisy
- [ ] D) Yusuf
- [ ] E) Dev

---

115 Four cousins, Ruby, Eli, Priya and Ravi, all have different amounts of money. Eli is poorer than Ravi. Ravi is poorer than Priya. Ruby is richer than Eli. Which one of these statements must be true?

- [ ] A) Ruby is richer than Priya.
- [ ] B) Ruby is richer than Ravi.
- [ ] C) Priya is poorer than Eli.
- [ ] D) Priya is richer than Eli.
- [ ] E) Ravi is poorer than Eli.

---

116 Four children, Maya, Max, Will and Rhys, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Rhys sits immediately to the right of Max. Rhys sits somewhere between Max and Maya. Max sits immediately to the right of Will. Who sits at the far left of the row?

- [ ] A) Max
- [ ] B) Maya
- [ ] C) Will
- [ ] D) Rhys
- [ ] E) Cannot tell

---

117 Four pupils, Dev, Olive, Ben and Quinn, each eat a different one of these: pasta, soup, pizza and salad. Quinn does not eat salad. Ben does not eat pizza. Which one does Ben eat?

- [ ] A) soup
- [ ] B) Cannot tell
- [ ] C) pasta
- [ ] D) salad
- [ ] E) pizza

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118 Four pupils, Alex, Nathan, Cara and Neil, each have a different one of these: a parrot, a rabbit, a cat and a hamster. Neil does not have a parrot. Cara has a rabbit. Alex does not have a parrot. Who has a parrot?

- ☐ A) Cannot tell
- ☐ B) Neil
- ☐ C) Cara
- ☐ D) Alex
- ☐ E) Nathan

---

119 Maya is taller than Daniel. Daniel is taller than Ben. Ben is taller than Rhys. Who is the second tallest?

- ☐ A) Maya
- ☐ B) Daniel
- ☐ C) Ben
- ☐ D) Rhys
- ☐ E) Cannot tell

---

120 Four cousins, Raj, Yusuf, Leo and Ruby, all have different weights. Leo is heavier than Ruby. Raj is lighter than Yusuf. Leo is lighter than Yusuf. Which one of these statements must be true?

- ☐ A) Raj is lighter than Leo.
- ☐ B) Leo is heavier than Yusuf.
- ☐ C) Yusuf is heavier than Ruby.
- ☐ D) Ruby is heavier than Yusuf.
- ☐ E) Raj is lighter than Ruby.

---

121 Three neighbours, Neil, Aisha and Holly, all run at different speeds. Aisha is faster than Holly. Holly is faster than Neil. Who is the fastest?

- ☐ A) Holly
- ☐ B) Neil
- ☐ C) Aisha and Holly are the same
- ☐ D) Aisha
- ☐ E) Cannot tell

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122 Four children, Finn, Sam, Kofi and Imran, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Kofi sits somewhere to the left of Finn. Imran sits somewhere between Finn and Sam. Which seat does Kofi sit in?

- ☐ A) Seat 2
- ☐ B) Cannot tell
- ☐ C) Seat 4
- ☐ D) Seat 1
- ☐ E) Seat 3

---

123 Four children, Dev, Ruby, Ben and Cara, are all different in how clever they are. Ben is cleverer than Cara. Ruby is less clever than Dev. Dev is cleverer than Ben. Which one of these statements must be true?

- ☐ A) Dev is less clever than Ben.
- ☐ B) Ben is less clever than Ruby.
- ☐ C) Ruby is less clever than Cara.
- ☐ D) Ruby is cleverer than Cara.
- ☐ E) Dev is cleverer than Cara.

---

124 Three cousins, Amir, Ben and Eli, are all different heights. Amir is shorter than Eli. Eli is shorter than Ben. Who is the shortest?

- ☐ A) Cannot tell
- ☐ B) Ben
- ☐ C) Amir and Eli are the same
- ☐ D) Amir
- ☐ E) Eli

---

125 Five neighbours, Freya, Tess, Keira, Hana and Daisy, are all different in strength. Tess is stronger than Keira. Tess is stronger than Hana. Daisy is stronger than Tess. Hana is stronger than Freya. Who is the second strongest?

- ☐ A) Hana
- ☐ B) Daisy
- ☐ C) Tess
- ☐ D) Freya
- ☐ E) Keira

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126 The coding, chess, choir and football clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The coding club meets on Wednesday. The choir club meets on the day after the football club. Which club meets on Thursday?

- ☐ A) The chess club
- ☐ B) Cannot tell
- ☐ C) The choir club
- ☐ D) The football club
- ☐ E) The coding club

---

127 Three friends, Isla, Pam and Raj, are all different ages. Raj is younger than Pam. Raj is older than Isla. Who is the oldest?

- ☐ A) Cannot tell
- ☐ B) Pam
- ☐ C) Raj
- ☐ D) Isla
- ☐ E) Raj and Isla are the same

---

128 Yusuf is older than Nia. Callum is older than Yusuf. Nia is older than Freya. Who is the youngest?

- ☐ A) Yusuf
- ☐ B) Callum
- ☐ C) Freya
- ☐ D) Nia
- ☐ E) Cannot tell

---

129 The swimming, drama, dance and art clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The dance club meets on the day before or the day after the drama club. The art club meets earlier in the week than the swimming club. The art club meets on a day between those of the dance club and the swimming club. On which day does the art club meet?

- ☐ A) Monday
- ☐ B) Cannot tell
- ☐ C) Thursday
- ☐ D) Tuesday
- ☐ E) Wednesday

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130 The choir, swimming, dance and art clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The art club meets on the day before or the day after the dance club. The choir club meets on Tuesday. On which day does the swimming club meet?

- [ ] A) Thursday
- [ ] B) Wednesday
- [ ] C) Monday
- [ ] D) Tuesday
- [ ] E) Cannot tell

---

131 Four neighbours, Aisha, Pam, Jack and Jade, each like a different one of these: green, yellow, purple and red. Jade does not like red. Pam likes purple. Jade does not like green. Who likes yellow?

- [ ] A) Cannot tell
- [ ] B) Jade
- [ ] C) Aisha
- [ ] D) Pam
- [ ] E) Jack

---

132 Five pupils, Chloe, Ruby, Sue, Yusuf and Sam, are all different heights. Chloe is taller than Ruby. Sue is taller than Yusuf. Yusuf is taller than Chloe. Yusuf is taller than Sam. Who is the second tallest?

- [ ] A) Chloe
- [ ] B) Sue
- [ ] C) Ruby
- [ ] D) Sam
- [ ] E) Yusuf

---

133 Four neighbours, Tara, Yusuf, Amir and Beth, are all different heights. Beth is taller than Yusuf. Amir is taller than Yusuf. Tara is taller than Amir. Which one of these statements must be true?

- [ ] A) Tara is taller than Yusuf.
- [ ] B) Tara is taller than Beth.
- [ ] C) Amir is shorter than Yusuf.
- [ ] D) Tara is shorter than Amir.
- [ ] E) Beth is taller than Amir.

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134 Four neighbours, Mia, Sam, Faye and Isla, each have a different one of these: a parrot, a rabbit, a cat and a hamster. They each also drink a different one of these: milk, cocoa, juice and water. Isla has a parrot. The neighbour who has a hamster drinks cocoa. The neighbour who has a rabbit drinks milk. Faye drinks water. Who drinks juice?

- [ ] A) Mia
- [ ] B) Cannot tell
- [ ] C) Isla
- [ ] D) Sam
- [ ] E) Faye

---

135 The choir, coding, dance and chess clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The coding club does not meet on Thursday. The dance club meets on a day between those of the chess club and the choir club. On which day does the coding club meet?

- [ ] A) Tuesday
- [ ] B) Cannot tell
- [ ] C) Wednesday
- [ ] D) Thursday
- [ ] E) Monday

---

136 The jacket costs more than the scarf. The hat costs less than the scarf. The jacket costs less than the coat. Which item costs the most?

- [ ] A) Jacket
- [ ] B) Scarf
- [ ] C) Hat
- [ ] D) Coat
- [ ] E) Cannot tell

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137 The swimming, dance, drama, cooking and football clubs each meet on a different day, Monday to Friday. Each club meets once a week. The swimming club does not meet on Monday or Friday. The swimming club meets on a day between those of the cooking club and the dance club. The swimming club meets on a day between those of the cooking club and the drama club. The cooking club meets on Friday. On which day does the swimming club meet?

- ☐ A) Wednesday
- ☐ B) Friday
- ☐ C) Thursday
- ☐ D) Monday
- ☐ E) Cannot tell

---

138 Four children, Nina, Pam, Theo and Josh, sit in a row of 4 seats, one in each seat. The seats are numbered 1 to 4 from the left. Pam sits somewhere between Nina and Theo. Pam sits somewhere to the left of Josh. Who sits in seat 2, counting from the left?

- ☐ A) Nina
- ☐ B) Josh
- ☐ C) Pam
- ☐ D) Theo
- ☐ E) Cannot tell

---

139 Four neighbours, Tara, Joe, Aisha and Rosa, are all different in strength. Rosa is weaker than Tara. Joe is stronger than Tara. Tara is stronger than Aisha. Aisha is weaker than Joe. Which one of these statements must be true?

- ☐ A) Aisha is weaker than Rosa.
- ☐ B) Aisha is stronger than Rosa.
- ☐ C) Joe is weaker than Tara.
- ☐ D) Joe is stronger than Rosa.
- ☐ E) Joe is weaker than Aisha.

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140 The choir, cooking, dance and drama clubs each meet on a different day, Monday to Thursday. Each club meets once a week. The drama club meets on a day between those of the choir club and the cooking club. The dance club meets on the day before or the day after the drama club. The drama club meets earlier in the week than the dance club. Which club meets on Wednesday?

- ☐ A) The dance club
- ☐ B) Cannot tell
- ☐ C) The drama club
- ☐ D) The cooking club
- ☐ E) The choir club

---

141 Four pupils, Maya, Imran, Una and Olive, are all different in how clever they are. Una is cleverer than Olive. Maya is less clever than Olive. Maya is cleverer than Imran. Who is the second least clever?

- ☐ A) Una
- ☐ B) Maya
- ☐ C) Cannot tell
- ☐ D) Imran
- ☐ E) Olive

---

142 Four pupils, Freya, Omar, Yusuf and Isla, all have different amounts of money. Omar is poorer than Isla. Freya is richer than Yusuf. Yusuf is richer than Omar. Which one of these statements must be true?

- ☐ A) Freya is poorer than Omar.
- ☐ B) Omar is richer than Isla.
- ☐ C) Omar is poorer than Freya.
- ☐ D) Yusuf is richer than Isla.
- ☐ E) Freya is poorer than Isla.

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143 Four children, Chloe, Sam, Faye and Jade, each like a different one of these: blue, red, purple and green. Chloe does not like green. Jade does not like purple. Chloe does not like purple. Jade does not like green. Faye does not like green. Who likes purple?

- ☐ A) Faye
- ☐ B) Cannot tell
- ☐ C) Jade
- ☐ D) Chloe
- ☐ E) Sam

---

144 Four children, Molly, Olive, Leo and Ethan, all have different weights. Molly is heavier than Leo. Ethan is heavier than Olive. Molly is lighter than Olive. Who is the second lightest?

- ☐ A) Olive
- ☐ B) Molly
- ☐ C) Cannot tell
- ☐ D) Ethan
- ☐ E) Leo

---

145 In a race, Yusuf finished before Kwame. Kwame finished before Nia. Nia finished before Rhys. Rhys finished before Freya. Who finished first?

- ☐ A) Kwame
- ☐ B) Nia
- ☐ C) Rhys
- ☐ D) Yusuf
- ☐ E) Freya

---

146 Statement 1: No pupil who is in the chess club is in the football club.
Statement 2: Callum is in the football club.
Which conclusion must be true?

- ☐ A) Callum is in chess club
- ☐ B) Cannot tell whether Callum is in chess club
- ☐ C) All football club members are in chess club
- ☐ D) Callum is in neither club
- ☐ E) Callum is not in chess club

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147 Statement 1: If Zara is picked for the team, then Isla is not picked.
Statement 2: If Isla is not picked, then Ben is picked.
Statement 3: Ben is not picked.
Which conclusion must be true?

- [ ] A) Zara is not picked for the team
- [ ] B) Zara is picked for the team
- [ ] C) Ben is picked for the team
- [ ] D) Cannot tell whether Zara is picked
- [ ] E) Isla is not picked for the team

---

148 Wyn, Xena, Yusuf and Zoe each have a different fruit: an apple, a banana, some grapes or an orange. Wyn does not have the apple. Xena does not have the apple. Yusuf does not have the banana. Who has the apple?

- [ ] A) Xena
- [ ] B) Wyn
- [ ] C) Zoe
- [ ] D) Cannot tell
- [ ] E) Yusuf

---

149 Max is taller than Ned. Ola is taller than Max. Pat is shorter than Ola. Who is the tallest?

- [ ] A) Cannot tell
- [ ] B) Ned
- [ ] C) Pat
- [ ] D) Max
- [ ] E) Ola

---

150 The book fair is on Thursday. The parents' evening is on the day after the book fair. The school trip is three days before the parents' evening. On which day is the school trip?

- [ ] A) Tuesday
- [ ] B) Wednesday
- [ ] C) Cannot tell
- [ ] D) Thursday
- [ ] E) Monday

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151 Farah, Gareth, Hana and Isaac each go to a different club: chess club, drama club, art club or choir. Isaac goes to drama club. Farah does not go to chess club. Farah does not go to choir. Hana goes to either art club or choir. Who goes to choir?

- ☐ A) Hana
- ☐ B) Cannot tell
- ☐ C) Isaac
- ☐ D) Gareth
- ☐ E) Farah

---

152 Statement 1: Some of the pupils in Year 6 do not play chess.
Statement 2: Every member of the chess club plays chess.
Which conclusion must be true?

- ☐ A) Some of the pupils in Year 6 are in the chess club.
- ☐ B) None of the pupils in Year 6 is in the chess club.
- ☐ C) Some of the pupils in Year 6 are not in the chess club.
- ☐ D) Cannot tell
- ☐ E) All of the pupils in Year 6 are in the chess club.

---

153 The kite costs more than the ball. The drum costs less than the ball. The bat costs more than the kite. The rope costs less than the drum. Which item costs the least?

- ☐ A) The rope
- ☐ B) The kite
- ☐ C) The ball
- ☐ D) The bat
- ☐ E) The drum

---

154 Kofi is taller than Megan but shorter than Gwen. Imran is taller than Gwen. Niamh is shorter than Megan. Who is the second shortest?

- ☐ A) Kofi
- ☐ B) Gwen
- ☐ C) Imran
- ☐ D) Megan
- ☐ E) Niamh

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Mark scheme · 3.21 Logic Deduction: 2-hour Pack

Question 1

E) red - putting the clues together, only red fits **B1**

Answer: E) red

Question 2

A) Aisha is less clever than Liam. - this is the only statement that is true however the clues are arranged **B1**

Answer: A) Aisha is less clever than Liam.

Question 3

C) tennis - putting the clues together, only tennis fits **B1**

Answer: C) tennis

Question 4

A) Luke - putting the clues together, only Luke fits **B1**

Answer: A) Luke

Question 5

B) drawing - putting the clues together, only drawing fits **B1**

Answer: B) drawing

Question 6

D) Priya - putting the clues together, only Priya fits **B1**

Answer: D) Priya

Question 7

E) Wednesday - putting the clues together, only Wednesday fits **B1**

Answer: E) Wednesday

Question 8

A) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: A) Cannot tell

Question 9

E) Kofi - putting the clues together, only Kofi fits **B1**

Answer: E) Kofi

Question 10

C) Seat 1 - putting the clues together, only Seat 1 fits **B1**

Answer: C) Seat 1

Question 11

A) Callum - putting the clues together, only Callum fits **B1**

Answer: A) Callum

Question 12

C) Seat 3 - putting the clues together, only Seat 3 fits **B1**

Answer: C) Seat 3

Question 13

D) Thursday - putting the clues together, only Thursday fits **B1**

Answer: D) Thursday

Question 14

E) Nathan is shorter than Sam. - this is the only statement that is true however the clues are arranged **B1**

Answer: E) Nathan is shorter than Sam.

Question 15

B) Grace - putting the clues together, only Grace fits **B1**

Answer: B) Grace

Question 16

E) Ravi - putting the clues together, only Ravi fits **B1**

Answer: E) Ravi

Question 17

D) Alex - putting the clues together, only Alex fits **B1**

Answer: D) Alex

Question 18

B) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: B) Cannot tell

Question 19

C) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: C) Cannot tell

Question 20

A) Callum is poorer than Ali. - this is the only statement that is true however the clues are arranged **B1**

Answer: A) Callum is poorer than Ali.

Question 21

D) The drama club - putting the clues together, only The drama club fits **B1**

Answer: D) The drama club

Question 22

C) Molly - putting the clues together, only Molly fits **B1**

Answer: C) Molly

Question 23

E) a hamster - putting the clues together, only a hamster fits **B1**

Answer: E) a hamster

Question 24

D) Tara - putting the clues together, only Tara fits **B1**

Answer: D) Tara

Question 25

A) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: A) Cannot tell

Question 26

B) Tuesday - putting the clues together, only Tuesday fits **B1**

Answer: B) Tuesday

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Question 27

C) Seat 2 - putting the clues together, only Seat 2 fits **B1**

Answer: C) Seat 2

Question 28

C) Una - putting the clues together, only Una fits **B1**

Answer: C) Una

Question 29

A) Thursday - putting the clues together, only Thursday fits **B1**

Answer: A) Thursday

Question 30

D) Omar is younger than Lena. - this is the only statement that is true however the clues are arranged **B1**

Answer: D) Omar is younger than Lena.

Question 31

B) Seat 3 - putting the clues together, only Seat 3 fits **B1**

Answer: B) Seat 3

Question 32

A) a rabbit - putting the clues together, only a rabbit fits **B1**

Answer: A) a rabbit

Question 33

B) Seat 2 - putting the clues together, only Seat 2 fits **B1**

Answer: B) Seat 2

Question 34

C) Hana - putting the clues together, only Hana fits **B1**

Answer: C) Hana

Question 35

E) Amir - putting the clues together, only Amir fits **B1**

Answer: E) Amir

Question 36

C) Thursday - putting the clues together, only Thursday fits **B1**

Answer: C) Thursday

Question 37

E) Luke - putting the clues together, only Luke fits **B1**

Answer: E) Luke

Question 38

D) Kofi - putting the clues together, only Kofi fits **B1**

Answer: D) Kofi

Question 39

A) Ella - putting the clues together, only Ella fits **B1**

Answer: A) Ella

Question 40

D) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: D) Cannot tell

Question 41

E) Anya - putting the clues together, only Anya fits **B1**

Answer: E) Anya

Question 42

C) The swimming club - putting the clues together, only The swimming club fits **B1**

Answer: C) The swimming club

Question 43

B) The science club - putting the clues together, only The science club fits **B1**

Answer: B) The science club

Question 44

E) Beth - putting the clues together, only Beth fits **B1**

Answer: E) Beth

Question 45

D) Una is poorer than Rhys. - this is the only statement that is true however the clues are arranged **B1**

Answer: D) Una is poorer than Rhys.

Question 46

B) Thursday - putting the clues together, only Thursday fits **B1**

Answer: B) Thursday

Question 47

C) The cooking club - putting the clues together, only The cooking club fits **B1**

Answer: C) The cooking club

Question 48

C) Sue - putting the clues together, only Sue fits **B1**

Answer: C) Sue

Question 49

B) Ravi is cleverer than Una. - this is the only statement that is true however the clues are arranged **B1**

Answer: B) Ravi is cleverer than Una.

Question 50

A) Seat 4 - putting the clues together, only Seat 4 fits **B1**

Answer: A) Seat 4

Question 51

E) Tess - putting the clues together, only Tess fits **B1**

Answer: E) Tess

Question 52

E) Lucy - putting the clues together, only Lucy fits **B1**

Answer: E) Lucy

Question 53

C) Seat 4 - putting the clues together, only Seat 4 fits **B1**

Answer: C) Seat 4

Question 54

D) Jade - putting the clues together, only Jade fits **B1**

Answer: D) Jade

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Question 55

B) Neil - putting the clues together, only Neil fits **B1**

Answer: B) Neil

Question 56

A) Nathan - putting the clues together, only Nathan fits **B1**

Answer: A) Nathan

Question 57

E) Quinn - putting the clues together, only Quinn fits **B1**

Answer: E) Quinn

Question 58

B) Monday - putting the clues together, only Monday fits **B1**

Answer: B) Monday

Question 59

C) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: C) Cannot tell

Question 60

A) Nina - putting the clues together, only Nina fits **B1**

Answer: A) Nina

Question 61

C) Imran - putting the clues together, only Imran fits **B1**

Answer: C) Imran

Question 62

B) The chess club - putting the clues together, only The chess club fits **B1**

Answer: B) The chess club

Question 63

D) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: D) Cannot tell

Question 64

B) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: B) Cannot tell

Question 65

C) Wednesday - putting the clues together, only Wednesday fits **B1**

Answer: C) Wednesday

Question 66

E) The drama club - putting the clues together, only The drama club fits **B1**

Answer: E) The drama club

Question 67

D) Nadia is faster than Callum. - this is the only statement that is true however the clues are arranged **B1**

Answer: D) Nadia is faster than Callum.

Question 68

A) Noah - putting the clues together, only Noah fits **B1**

Answer: A) Noah

Question 69

C) Nina - putting the clues together, only Nina fits **B1**

Answer: C) Nina

Question 70

E) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: E) Cannot tell

Question 71

A) Faye - putting the clues together, only Faye fits **B1**

Answer: A) Faye

Question 72

D) football - putting the clues together, only football fits **B1**

Answer: D) football

Question 73

B) Monday - putting the clues together, only Monday fits **B1**

Answer: B) Monday

Question 74

C) Keira - putting the clues together, only Keira fits **B1**

Answer: C) Keira

Question 75

E) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: E) Cannot tell

Question 76

D) Tuesday - putting the clues together, only Tuesday fits **B1**

Answer: D) Tuesday

Question 77

E) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: E) Cannot tell

Question 78

D) Grace is heavier than Beth. - this is the only statement that is true however the clues are arranged **B1**

Answer: D) Grace is heavier than Beth.

Question 79

B) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: B) Cannot tell

Question 80

C) Noah - putting the clues together, only Noah fits **B1**

Answer: C) Noah

Question 81

D) Alex - putting the clues together, only Alex fits **B1**

Answer: D) Alex

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Question 82

B) Leo - putting the clues together, only Leo fits **B1**

Answer: B) Leo

Question 83

A) Omar - putting the clues together, only Omar fits **B1**

Answer: A) Omar

Question 84

E) Tess - putting the clues together, only Tess fits **B1**

Answer: E) Tess

Question 85

A) Luke - putting the clues together, only Luke fits **B1**

Answer: A) Luke

Question 86

D) Tara - putting the clues together, only Tara fits **B1**

Answer: D) Tara

Question 87

E) Tara - putting the clues together, only Tara fits **B1**

Answer: E) Tara

Question 88

B) Cannot tell - Vik scored fewer than Uma, and Tia scored fewer than Sam, but nothing compares Tia with Vik, so either of them could have the lowest score. **B1**

Answer: B) Cannot tell

Question 89

B) Monday - putting the clues together, only Monday fits **B1**

Answer: B) Monday

Question 90

B) Grace - putting the clues together, only Grace fits **B1**

Answer: B) Grace

Question 91

D) Seat 2 - putting the clues together, only Seat 2 fits **B1**

Answer: D) Seat 2

Question 92

A) tennis - putting the clues together, only tennis fits **B1**

Answer: A) tennis

Question 93

B) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: B) Cannot tell

Question 94

D) The football club - putting the clues together, only The football club fits **B1**

Answer: D) The football club

Question 95

A) Cara - putting the clues together, only Cara fits **B1**

Answer: A) Cara

Question 96

E) Jack is stronger than Alex. - this is the only statement that is true however the clues are arranged **B1**

Answer: E) Jack is stronger than Alex.

Question 97

C) Freya - putting the clues together, only Freya fits **B1**

Answer: C) Freya

Question 98

B) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: B) Cannot tell

Question 99

E) The choir club - putting the clues together, only The choir club fits **B1**

Answer: E) The choir club

Question 100

D) Jade - putting the clues together, only Jade fits **B1**

Answer: D) Jade

Question 101

C) Tuesday - putting the clues together, only Tuesday fits **B1**

Answer: C) Tuesday

Question 102

C) Kai - Ivy and Jon are the same age. Jon is older than Kai, so Ivy is older than Kai too, and Lou is older than Ivy. Kai is younger than all three others. **B1**

Answer: C) Kai

Question 103

B) Ana gets muddy. - Ana finishes her homework, so she plays outside. She plays outside, so she gets muddy. **B1**

Answer: B) Ana gets muddy.

Question 104

D) Some of the animals in the shop are not white. - Some animals are cats, and no cat is white, so those animals are not white. Some animals in the shop are not white. **B1**

Answer: D) Some of the animals in the shop are not white.

Question 105

D) Cannot tell - Both Owen and Quinn are heavier than Pia, but nothing compares Owen with Quinn, so either of them could be the heaviest. **B1**

Answer: D) Cannot tell

Question 106

B) Great-grandmother - Mia is Jo's mother and Jo is Sam's father, so Mia is Sam's grandmother. Sam is Tia's mother, so Mia is Tia's great-grandmother. **B1**

Answer: B) Great-grandmother

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Question 107

C) Cara - Amir has the fish or the rabbit, so he does not have the dog. Beth and Dev do not have the dog either, so Cara has the dog. **B1**

Answer: C) Cara

Question 108

D) Zac - Putting the people in order from tallest to shortest gives Yara, Wren, Zac, Xavi, so the answer is Zac. **B1**

Answer: D) Zac

Question 109

B) Ollie - Putting the people in order from tallest to shortest gives Rhys, Priya, Ollie, Sian, Tomas, so the answer is Ollie. **B1**

Answer: B) Ollie

Question 110

A) Amara - the order Zara > Amara > Oliver places Amara in the middle **B1**

Answer: A) Amara

Question 111

E) Seat 4 - putting the clues together, only Seat 4 fits **B1**

Answer: E) Seat 4

Question 112

B) rice - putting the clues together, only rice fits **B1**

Answer: B) rice

Question 113

B) Wednesday - putting the clues together, only Wednesday fits **B1**

Answer: B) Wednesday

Question 114

E) Dev - putting the clues together, only Dev fits **B1**

Answer: E) Dev

Question 115

D) Priya is richer than Eli. - this is the only statement that is true however the clues are arranged **B1**

Answer: D) Priya is richer than Eli.

Question 116

C) Will - putting the clues together, only Will fits **B1**

Answer: C) Will

Question 117

B) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: B) Cannot tell

Question 118

E) Nathan - putting the clues together, only Nathan fits **B1**

Answer: E) Nathan

Question 119

B) Daniel - the order Maya > Daniel > Ben > Rhys places Daniel second **B1**

Answer: B) Daniel

Question 120

C) Yusuf is heavier than Ruby. - this is the only statement that is true however the clues are arranged **B1**

Answer: C) Yusuf is heavier than Ruby.

Question 121

D) Aisha - putting the clues together, only Aisha fits **B1**

Answer: D) Aisha

Question 122

B) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: B) Cannot tell

Question 123

E) Dev is cleverer than Cara. - this is the only statement that is true however the clues are arranged **B1**

Answer: E) Dev is cleverer than Cara.

Question 124

D) Amir - putting the clues together, only Amir fits **B1**

Answer: D) Amir

Question 125

C) Tess - putting the clues together, only Tess fits **B1**

Answer: C) Tess

Question 126

A) The chess club - putting the clues together, only The chess club fits **B1**

Answer: A) The chess club

Question 127

B) Pam - putting the clues together, only Pam fits **B1**

Answer: B) Pam

Question 128

C) Freya - the order Callum > Yusuf > Nia > Freya places Freya last **B1**

Answer: C) Freya

Question 129

E) Wednesday - putting the clues together, only Wednesday fits **B1**

Answer: E) Wednesday

Question 130

C) Monday - putting the clues together, only Monday fits **B1**

Answer: C) Monday

Question 131

B) Jade - putting the clues together, only Jade fits **B1**

Answer: B) Jade

Question 132

E) Yusuf - putting the clues together, only Yusuf fits **B1**

Answer: E) Yusuf

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Question 133

A) Tara is taller than Yusuf. - this is the only statement that is true however the clues are arranged **B1**

Answer: A) Tara is taller than Yusuf.

Question 134

C) Isla - putting the clues together, only Isla fits **B1**

Answer: C) Isla

Question 135

B) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: B) Cannot tell

Question 136

D) Coat - the order hat < scarf < jacket < coat places the coat highest **B1**

Answer: D) Coat

Question 137

E) Cannot tell - the clues leave more than one answer possible, so it cannot be decided **B1**

Answer: E) Cannot tell

Question 138

C) Pam - putting the clues together, only Pam fits **B1**

Answer: C) Pam

Question 139

D) Joe is stronger than Rosa. - this is the only statement that is true however the clues are arranged **B1**

Answer: D) Joe is stronger than Rosa.

Question 140

A) The dance club - putting the clues together, only The dance club fits **B1**

Answer: A) The dance club

Question 141

B) Maya - putting the clues together, only Maya fits **B1**

Answer: B) Maya

Question 142

C) Omar is poorer than Freya. - this is the only statement that is true however the clues are arranged **B1**

Answer: C) Omar is poorer than Freya.

Question 143

A) Faye - putting the clues together, only Faye fits **B1**

Answer: A) Faye

Question 144

B) Molly - putting the clues together, only Molly fits **B1**

Answer: B) Molly

Question 145

D) Yusuf - the finishing order Yusuf, Kwame, Nia, Rhys, Freya places Yusuf first **B1**

Answer: D) Yusuf

Question 146

E) Callum is not in chess club - valid: no overlap between the clubs, and Callum is in football club **B1**

Answer: E) Callum is not in chess club

Question 147

A) Zara is not picked for the team - chained contrapositives show Isla is picked, so Zara cannot be **B1**

Answer: A) Zara is not picked for the team

Question 148

D) Cannot tell - More than one arrangement fits the clues: Yusuf and Zoe both work, so it cannot be told. **B1**

Answer: D) Cannot tell

Question 149

E) Ola - Ola is taller than Max, Max is taller than Ned, and Pat is shorter than Ola, so nobody is taller than Ola. Pat's height compared with Max and Ned does not matter. **B1**

Answer: E) Ola

Question 150

A) Tuesday - The book fair is on Thursday, so the parents' evening is on Friday. Three days before Friday is Tuesday. **B1**

Answer: A) Tuesday

Question 151

A) Hana - Working through the clues gives Farah: art club, Gareth: chess club, Hana: choir, Isaac: drama club. So the answer is Hana. **B1**

Answer: A) Hana

Question 152

C) Some of the pupils in Year 6 are not in the chess club. - Some pupils in Year 6 do not play chess. Every club member plays chess, so those pupils cannot be members. Some pupils in Year 6 are not in the chess club. **B1**

Answer: C) Some of the pupils in Year 6 are not in the chess club.

Question 153

A) The rope - Putting the items in order from most expensive to cheapest gives the bat, the kite, the ball, the drum, the rope, so the answer is the rope. **B1**

Answer: A) The rope

Question 154

D) Megan - Putting the people in order from tallest to shortest gives Imran, Gwen, Kofi, Megan, Niamh, so the answer is Megan. **B1**

Answer: D) Megan

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