

Logic Puzzles

Three puzzles you can solve by thinking it through

Nothing here needs maths. Each puzzle gives you a set of clues and a grid to keep track. Tick a box when a clue proves something is true, and cross it when a clue proves it is false – crossing out is just as useful as ticking.

Work through the clues in any order. Once you know one fact for certain, go back to the start – earlier clues often say more the second time you read them.

Logic Puzzle

Who owns which pet?

Three friends each have one pet and one favourite colour. Use the clues to fill the grid.

Clues

- 1. The person who likes green owns the rabbit.
- 2. Amara owns the cat, and green is not her favourite colour.
- 3. Ben does not own the rabbit.
- 4. Red is not Chloe's favourite colour, and it is not Ben's either.

	Cat	Dog	Rabbit	Green	Red	Blue
Amara						
Ben						
Chloe						

Logic Puzzle

What is in the lunchbox?

Three children each brought one fruit and one drink. Work out who brought what.

Clues

- 1. The child with the banana also brought milk.
- 2. Dev did not bring milk and did not bring the pear.
- 3. Elsie brought water.
- 4. Femi did not bring the apple.

	Apple	Banana	Pear	Water	Juice	Milk
Dev						
Elsie						
Femi						

Logic Puzzle

Sports day

Three runners finished in different places, each wearing a different colour.

Clues

- 1. The runner in the purple vest came second.
- 2. Hugo came first.
- 3. Grace did not come third.
- 4. Iris was not wearing yellow.

	First	Second	Third	Yellow	Purple	Orange
Grace						
Hugo						
Iris						

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	Cat	Dog	Rabbit	Green	Red	Blue
Amara	✓				✓	
Ben		✓				✓
Chloe			✓	✓		

Answer

Amara: Cat, Red
Ben: Dog, Blue
Chloe: Rabbit, Green

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	Apple	Banana	Pear	Water	Juice	Milk
Dev						
Elsie						
Femi						

Answer

Dev: Apple, Juice
Elsie: Pear, Water
Femi: Banana, Milk

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	First	Second	Third	Yellow	Purple	Orange
Grace		✓			✓	
Hugo	✓			✓		
Iris			✓			✓

Answer

Grace: Second, Purple
Hugo: First, Yellow
Iris: Third, Orange