

Fun with Puzzles

Hello STEMquest community! Today we'll be tackling a type of logic puzzle called Zebra puzzles (sometimes called Einstein puzzles, since it is purported that he loved these types of puzzles).

EASY

Four boys are at home to watch some movies. Figure out the favorite genre of movie for each boy.

- Joshua is sitting at one of the ends.
- The boy wearing the Black shirt is somewhere to the left of the youngest boy.
- Joshua likes Horror movies.
- The 14-year-old boy is at the third position.
- The boy wearing the Red shirt is somewhere between the 13-year-old boy and the one who likes Action movies, in that order.
- Daniel likes Thriller movies.
- The boy who is going to eat Cookies is at one of the ends.
- The boy wearing the Black shirt is exactly to the left of the one who likes Thriller movies.
- The boy who is going to eat Crackers is exactly to the right of the boy who likes Comedy movies.
- The boy wearing the Red shirt is somewhere between the boy who is going to eat Popcorn and Nicholas, in that order.
- At one of the ends is the boy who likes Thriller movies,
- Nicholas is somewhere between Joshua and Daniel, in that order.
- At the first position is the boy wearing the Green shirt.

Shirts: Black, Blue, Green, Red
Names: Daniel, Joshua, Nicholas, Ryan
Movie Genres: Action, Comedy, Horror, Thriller
Snacks: Chips, Cookies, Crackers, Popcorn
Ages: 11, 12, 13, 14

	Boy #1	Boy #2	Boy #3	Boy #4
Shirt				
Name				
Movie Genre				
Snack				
Age				

MEDIUM

Five girls are sitting in a row. Each girl has a favorite color, a chocolate bar, a pet, a hobby, and a place to go on vacation. Determine the name of the girl who owns the crocodile.

- Jo likes the Wispa Bites.
- The girl with the Hamster likes Swimming.
- Hannah eats Dairy Milk.
- Jessica is on the left of Georgina.
- Lucy is the first on the left.
- The rightmost girl likes Swimming.
- The girl who eats Milky Bars owns a Horse.
- The girl in the middle eats Dairy Milk.
- Jessica likes Green.
- The girl on the left of the middle wants to go to Tobago.
- The girl who wants to go to the Maldives likes Lilac.
- The girl who likes Wispa Bites sits next to the girl who wants to go to Florida.
- The girl who likes Pink wants to go to Florida.
- The girl who sits first on the left likes Lilac.
- The girl that likes Blue owns a Puppy.
- The girl who likes Skiing sits next to the girl who has a Hamster.
- The girl on the right of the girl who likes Tennis likes Horse Riding.
- The girl next to the girl who likes Milky Bars likes Boost.
- The girl who likes Purple wants to go to Canada.
- The girl who likes Crunchies owns a Rabbit.
- The girl who likes Skiing sits next to the girl who plays Bowling.
- Jessica wants to go to Australia.

Colors: Blue, Green, Lilac, Pink, Purple

Names: Georgina, Hannah, Jessica, Jo, Lucy

Chocolates: Boost, Crunchies, Dairy Milk, Milky Bars, Wispa Bites

Pets: Crocodile, Hamster, Horse, Puppy, Rabbit

Hobbies: Horse Riding, Skiing, Swimming, Bowling, Tennis

Vacations: Australia, Canada, Florida, Maldives, Tobago

	Girl #1	Girl #2	Girl #3	Girl #4	Girl #5
Color					
Name					
Chocolate					
Pet					
Hobby					
Vacation					

HARD

Five kids are together playing an RPG game. Their characters are side by side fighting different kinds of monsters. Each character is from a specific race and is using a single weapon.

- Jerieviel is next to the character using a Hammer.
- The Human has the lowest level.
- The character using a Sword is exactly to the right of the level 14 character.
- The level 12 character is at one of the ends.
- The character wearing Red is somewhere to the left of the one fighting a Dragon.
- The character fighting a Beast is exactly to the left of the character that has a Hammer.
- The Gnome is at one of the ends.
- The player that is level 8 is exactly to the right of Raolind.
- Aferidon is wearing Green.
- The character fighting with a Sword is somewhere to the right of the one wearing Blue.
- At the fifth position is the character using a Bow.
- The one fighting a Fairy is exactly to the left of Aferidon.
- The character that is level 10 is at one of the ends.
- The Human has a Hammer as a weapon.
- The character wearing Green is somewhere to the left of the player that is fighting an Aberration.
- The Dwarf is at the first position.
- The Halfling is next to the level 10 character.
- Terakoth is at the fourth position.
- At one of the ends is the character fighting with a Spear.
- The character wearing Black is exactly to the left of the character fighting a Fairy.

Wearing: Black, Blue, Green, Red, White

Names: Aferidon, Hedrilin, Jerieviel, Raolind, Terakoth

Races: Dwarf, Elf, Gnome, Halfling, Human

Weapons: Axe, Bow, Hammer, Spear, Sword

Monsters: Aberration, Beast, Dragon, Fairy, Humanoid

Levels: 6, 8, 10, 12, 14

	Character #1	Character #2	Character #3	Character #4	Character #5
Wearing					
Name					
Race					
Weapon					
Monster					
Level					

VERY HARD

Five women are side by side donating blood. Use the logic and the clues to figure out their blood types.

- The A+ donor is next to the B+ donor.
- Brooke is at one of the ends.
- The woman wearing the Black shirt is somewhere to the left of the 5'5" tall woman.
- The Actress is next to the Chef.
- Kathleen is 40 years old.
- The Florist is somewhere to the right of the woman wearing the Purple shirt.
- The oldest donor is 5'3" tall.
- Brooke is next to Nichole.
- The 35 years old woman is exactly to the left of the 30 years old woman.
- The 5'2" donor is somewhere between the O- donor and the 5'5" donor, in that order.
- Kathleen is at one of the ends.
- The woman wearing the Purple shirt is somewhere to the right of the woman wearing the Green shirt.
- The B+ donor is 5'4" tall.
- The youngest woman is next to the 30 years old woman.
- The woman with AB+ is exactly to the left of the A+ donor.
- Meghan is somewhere to the right of the woman wearing the Purple shirt.
- The woman wearing the Green shirt is somewhere between the Actress and the woman wearing the Red shirt, in that order.
- At one of the ends is the 5'3" woman.
- The O- donor is 35 years old.
- The Florist is somewhere between the Actress and the Engineer, in that order.
- The woman wearing the Blue shirt is somewhere to the left of the woman wearing the Red shirt.
- The AB+ donor is next to the youngest woman.

Shirts: Black, Blue, Green, Purple, Red

Names: Andrea, Brooke, Kathleen, Meghan, Nichole

Blood Types: A+, AB+, B+, B-, O-

Ages: 25, 30, 35, 40, 45

Heights: 5'2", 5'3", 5'4", 5'5", 5'6"

Jobs: Actress, Chef, Engineer, Florist, Policewoman

	Donor #1	Donor #2	Donor #3	Donor #4	Donor #5
Shirt					
Name					
Blood Type					
Age					
Height					
Job					