



Logic Puzzles for Kids

20 riddles from easy to tricky. Write your answer on the line. Answers are on the last page.

Easy riddles ★

- 1 Ava, Ben and Cal each eat a different fruit: an apple, a banana or a cherry. Ava doesn't eat apples or bananas. Ben doesn't eat apples. Who eats which fruit?

ANSWER _____

- 2 A red house, a blue house and a green house stand in a row. The red house is not in the middle. The green house is somewhere to the right of the red house. The blue house is not on the right end. What is the order from left to right?

ANSWER _____

- 3 Mia, Noah and Owen each have one pet: a hamster, a parrot or a rabbit. The rabbit's owner has the shortest name. Noah doesn't have the parrot. Who has which pet?

ANSWER _____

- 4 Ella is older than Finn. Finn is older than Gus. Hana is younger than Gus. Who is the youngest?

ANSWER _____

- 5 Jay, Kim and Liv ran a race, and nobody tied. Kim didn't win, and she wasn't last. Liv finished after Jay. In what order did they finish?

ANSWER _____

- 6 Pia, Quin and Rae each have a lunch box: red, yellow or purple. Rae's lunch box is the color of a ripe banana. Pia's lunch box isn't red. What color is each lunch box?

ANSWER _____

- 7 Dan, Eva and Fay have birthdays in March, July and December. Dan's birthday is in the last month of the year. Eva's birthday comes earlier in the year than Fay's. Whose birthday is in which month?

ANSWER _____

Medium riddles ★★

- 8 Ada, Ben, Cy and Di sit in four seats in a row. Ben sits at one end. Cy sits right next to Ada, on her right. Di does not sit next to Ben. Ben sits somewhere to the left of Di. What is the order from left to right?

ANSWER _____

- 9 Ivy, Jon and Kai each own a different pet (a cat, a dog or a fish) and each has a different favorite color (red, green or blue). The person who loves green owns the dog. Ivy's pet lives in water. Kai doesn't like green. Kai's favorite color is the color of a strawberry. Who owns which pet, and who likes which color?

ANSWER _____

- 10 Somebody ate the last cookie. Ana says, "Ben ate it." Ben says, "I didn't eat it." Cora says, "I didn't eat it." Only one of them is telling the truth. Who ate the cookie?

ANSWER _____

- 11 A lock has a 3-digit code with three different digits. The first digit is 2 more than the last digit. The middle digit equals the first and last digits added together. All three digits add up to 12. What is the code?

ANSWER _____

- 12 Four books are stacked in a pile: red, blue, green and yellow. The green book is on the bottom. The yellow book is directly on top of the red book. The blue book is not on top. What is the order from top to bottom?

ANSWER _____

- 13 On Planet Zog, Zogs in blue hats always tell the truth and Zogs in red hats always lie. You meet a Zog in the dark and can't see its hat. You ask, "Do you always lie?" What will it answer?

ANSWER _____

- 14 A box holds 5 red, 4 blue and 3 green crayons. With your eyes closed, how many crayons must you take out to be sure you have at least one green crayon?

ANSWER _____

- 15 Three apples weigh the same as one melon. Two melons weigh the same as one pumpkin. How many apples weigh the same as one pumpkin?

ANSWER _____

Tricky riddles ★★ ★

- 16 Three houses stand in a row. Each is a different color (red, white or blue), has a different pet (a cat, a dog or a fish), and its owner drinks something different (milk, juice or water). The owner of the middle house drinks milk. The red house is directly to the left of the blue house. The cat's owner drinks water. The fish lives in the white house. The juice drinker lives directly to the left of the dog's house. What color is the dog's house, and what does the fish's owner drink?

ANSWER _____

- 17 One of four children broke a vase. Exactly one of them is lying. Amy says, "Ben did it." Ben says, "Dot did it." Cal says, "I didn't do it." Dot says, "Ben is lying." Who broke the vase?

ANSWER _____

- 18 A farmer must take a fox, a chicken and a bag of grain across a river. His boat holds him and only one of the three at a time. If he leaves the fox alone with the chicken, the fox eats the chicken. If he leaves the chicken alone with the grain, the chicken eats the grain. How does he get everything across safely?

ANSWER _____

- 19 Polly the parrot lies on Mondays, Tuesdays and Wednesdays and tells the truth on every other day. Today Polly says two things: "I was lying yesterday" and "Today is not a weekend day." What day is it?

ANSWER _____

- 20 Lea, Kai and Max are siblings. Kai is twice as old as Lea. Max is 2 years older than Kai. Their ages add up to 22. How old is each of them?

ANSWER _____

Answers

Logic Puzzles for Kids · answer key · print or fold this page away before you hand out the sheet

1. **Ava has the cherry, Ben the banana and Cal the apple.** Ava can't have the apple or the banana, so she has the cherry. Ben can't have the apple, so he has the banana, and the apple goes to Cal.
2. **Red, blue, green.** Red must be on an end, and green is to its right, so red is on the left. Blue isn't on the right end, so blue is in the middle and green is on the right.
3. **Mia has the rabbit, Noah the hamster and Owen the parrot.** Mia (3 letters) has the shortest name, so she owns the rabbit. Noah can't have the parrot, so he has the hamster, and Owen gets the parrot.
4. **Hana.** The order from oldest to youngest is Ella, Finn, Gus, Hana.
5. **Jay, Kim, Liv.** Kim must be 2nd. Jay and Liv take 1st and 3rd, and since Liv finished after Jay, Jay won and Liv came 3rd.
6. **Rae's is yellow, Pia's is purple and Quin's is red.** Rae's is yellow like a banana. Pia's isn't red, so it's purple, and red is left for Quin.
7. **Dan in December, Eva in March and Fay in July.** December is the last month, so it's Dan's. March comes before July, so Eva has March and Fay has July.
8. **Ben, Ada, Cy, Di (from left to right).** Ben is at an end with Di to his right, so Ben is in seat 1. Di can't sit next to him, so seat 2 is not Di. Ada and Cy sit together with Cy on the right, so they take seats 2 and 3, and Di gets seat 4.
9. **Ivy fish/blue, Jon dog/green, Kai cat/red.** Ivy's pet lives in water, so it's the fish. Kai doesn't like green, so he can't own the dog, which leaves him the cat and Jon the dog (and green). Kai likes strawberry red, so blue is left for Ivy.
10. **Cora.** If Ana ate it, Ben and Cora would both be telling the truth. If Ben ate it, Ana and Cora would both be telling the truth. If Cora ate it, only Ben's words are true, which is exactly one.
11. **462.** With 2 as the last digit, the first is 4 and the middle is $4 + 2 = 6$, and $4 + 6 + 2 = 12$. A last digit of 1 gives a sum of 8, and a last digit of 3 gives 16, so 2 is the only one that works.
12. **Yellow, red, blue, green.** Green is on the bottom. If yellow and red took the 2nd and 3rd spots, blue would have to go on top, which isn't allowed. So yellow and red are the top two, and blue is third.
13. **"No," every time.** A truth-teller doesn't always lie, so it truthfully says no. A liar does always lie, so the true answer is yes, and it lies and says no.
14. **10.** With the worst luck, you'd pull out all 5 red and all 4 blue crayons first. The very next one, the 10th, has to be green.
15. **6.** One pumpkin weighs the same as 2 melons, and each melon is 3 apples, so $2 \times 3 = 6$ apples.
16. **Red house; juice.** The cat's owner drinks water, so the cat isn't in the middle (that owner drinks milk). If the order were red, blue, white, the fish would be on the right and the cat on the left, which leaves the dog in the middle with juice on the right: but juice has to be left of the dog. So the order is white, red, blue: fish and juice in the white house, dog and milk in the red middle house, cat and water in the blue house.
17. **Ben.** Ben and Dot contradict each other, so the liar is one of them, and Amy and Cal tell the truth. Amy's true statement says Ben did it. Check it: Ben lies, Dot is right that Ben is lying, and Cal really didn't do it.
18. **He takes the chicken first.** Take the chicken over and return alone. Take the fox over and bring the chicken back. Leave the chicken, take the grain over and return alone. Finally, take the chicken over again.
19. **Thursday.** "I was lying yesterday" only fits two days. On Monday she lies and yesterday she told the truth, so the sentence is false, which a liar would say. On Thursday she tells the truth and yesterday she lied, so it's true. On Monday, "Today is not a weekend day" is true, and a liar can't say it, so it must be Thursday.
20. **Lea is 4, Kai is 8 and Max is 10.** Five parts plus 2 years is 22, so five parts is 20 and one part is 4. Check it: $4 + 8 + 10 = 22$.

Need a hint? Every riddle has one at riddlepedia.com/logic-puzzles-for-kids/, where you can also play them as a game.