



Let's hop into the world of a fascinating creature - the grasshopper! These intriguing insects belong to the group of bugs called Orthoptera, which also includes crickets and katydids. Grasshoppers are known for their long, slender bodies, powerful hind legs for jumping, and two pairs of wings. They can come in many colors, from green and brown to bright yellow or red, which helps them blend into their surroundings.



Speaking of surroundings, grasshoppers are found all around the world except for extreme cold regions like the North and South poles. They make their homes in meadows, fields, and just about anywhere with lots of plants. Why, you ask? Because these insects are primarily herbivores, munching on a diet of leaves, grasses, and cereal crops. Some larger species might eat smaller insects, but mostly, they're all about the greens.

Now, let's look at the life cycle of these leaf-loving critters. Grasshoppers go through a process called incomplete metamorphosis, which includes three stages: egg, nymph, and adult. After hatching from eggs, the nymphs look like tiny adults but without wings, and they grow bigger by shedding their skin several times. By the time they reach the adult stage, they have full-grown wings and are ready to start the cycle all over again by laying eggs.

Grasshoppers may seem small and harmless, but they actually play a big role in our world. For other animals, they're an important part of the food chain, serving as a meal for birds, reptiles, and other insects. For humans, they can sometimes be pests, damaging crops, but they're also admired for their ability to jump and are even considered symbols of luck in many cultures. With their powerful jumps, interesting life cycle, and important role in the ecosystem, grasshoppers truly are fascinating creatures to learn about.



**Solve each problem.****Use the article to answer the question.**

- 1) How many wings do grasshoppers have?
 - A. grasshoppers do not have wings
 - B. 1 pair
 - C. 3 pairs
 - D. 2 pairs
- 2) What can grasshoppers be considered in many cultures?
 - A. Symbols of luck
 - B. Symbols of strength
 - C. Symbols of danger
 - D. Symbols of beauty
- 3) Where can grasshoppers be found?
 - A. Oceans and rivers
 - B. Deserts and jungles
 - C. Mountains and caves
 - D. Fields and meadows
- 4) Why are grasshoppers admired in some cultures?
 - A. Ability to jump
 - B. Ability to fly
 - C. Ability to climb
 - D. Ability to swim
- 5) What is the role of grasshoppers in the food chain?
 - A. Serve as pollinators for flowers
 - B. Serve as predators for smaller insects
 - C. Serve as plant fertilizers
 - D. Serve as a meal for predators
- 6) What are grasshoppers primarily known for?
 - A. Jumping
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 - C. Swimming
 - D. Climbing
- 7) What do grasshoppers primarily eat?
 - A. Nuts and seeds
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 - C. Meat and smaller insects
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- 8) What is the process called where grasshoppers go through different stages of development?
 - A. Slow metamorphosis
 - B. Instant metamorphosis
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- 9) What happens to the nymphs as they grow bigger?
 - A. Their color changes
 - B. They grow larger wings
 - C. They form cocoons
 - D. They shed their skin several times
- 10) What do grasshopper nymphs look like?
 - A. Tiny adults without wings
 - B. Caterpillars with only 6 legs
 - C. Small worms
 - D. Tiny adults with no rear legs

Determine if the statements is something the animal would say (W) or it it is not something the animal would say (N).

- 11) "As grasshoppers, we hate plants and prefer to live in concrete cities."
- 12) "I eat meat regularly."



- 13) "You can find me anywhere around the globe except in the icy regions like the North pole. It's just too cold there!"
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- 18) "We're more than just jumping bugs. We grasshoppers actually play a pretty big role in the food chain."
- 19) "You might see us in many colors, it helps me and my friends hide from our predators."
- 20) "I prefer to live in the North and South poles."
- 21) "I only love to live in areas with extreme cold temperatures."
- 22) "I'm considered bad luck in many cultures."
- 23) "You'll see me hanging out in meadows and fields a lot. Lots of greenery to munch on!"
- 24) "I can be a beneficial insect for crop farmers."
- 25) "In many cultures, I am seen as a symbol of good luck. It's pretty cool, right?"
- 26) "From a tiny egg, I become a little version of my adult self, then I grow wings and become a full-grown grasshopper."
- 27) "Some of my bigger cousins might nibble on smaller insects, but we mostly prefer our veggies."
- 28) "I'm a carnivore, I only eat other small insects."
- 29) "I'm probably most well known for my powerful hind legs. I use them to jump from blade of grass to blade of grass."
- 30) "Birds, reptiles, and other insects might see me as a meal. So I must stay alert."

Determine if the statement is a fact or opinion based on the information in the article.

- 31) The life of a grasshopper includes three stages - the egg, nymph and adult stages.
- 32) Grasshoppers' vibrant colors make them the most beautiful insects.
- 33) Grasshoppers usually eat leaves, grasses, and cereal crops.
- 34) Grasshoppers are more interesting than other insects because they have two pairs of wings.
- 35) Grasshoppers can have different colors including green, brown, yellow or red.
- 36) It is amazing how grasshoppers can grow bigger by shedding their skin.
- 37) A lot of animals like birds, reptiles, and even other insects eat grasshoppers.
- 38) You cannot find grasshoppers in extremely cold areas like the North and South poles.
- 39) Grasshoppers eating plants is a bit annoying.
- 40) Grasshoppers are interesting because they can jump really high.

Determine if the statement is true or false.

- 41) Grasshoppers serve as a meal for birds.
- 42) Grasshoppers are considered symbols of bad luck in many cultures.
- 43) Grasshopper nymphs do not have wings.



- 66) Grasshoppers eat plants and can consume large amounts of leaves.
- 67) Did you know that a grasshopper has no lungs, breathes through tiny tubes all along their body, it's fantastic!
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- 82) Observe the different colors and patterns on grasshoppers' bodies.
- 83) What a surprise to know that the grasshopper's powerful hind legs work like miniature catapults!
- 84) Catch a grasshopper using a net.
- 85) Do grasshoppers live in groups or alone?
- 86) Grasshoppers molt their exoskeleton several times as they grow.

Determine which choice is the conclusion that can be drawn from the statement.

- 87) Grasshoppers have powerful hind legs that allow them to leap great distances. Based on this statement, what conclusion can be drawn about grasshoppers?
- | | |
|--|---|
| A. Grasshoppers have weak front legs. | B. Grasshoppers use their hind legs to move quickly and escape predators. |
| C. Grasshoppers use their hind legs for digging. | D. Grasshoppers can't fly. |



- 88) Certain species of grasshoppers can release a bad-tasting foam when they feel threatened. How does this foam help protect them?
- A. The bad-tasting foam deters predators from eating the grasshopper.
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 - D. The foam helps the grasshopper blend in with its surroundings.
- 89) Grasshoppers can shed their skin as they grow, a process called molting. What is implied about grasshoppers' growth process?
- A. Grasshoppers change their skin color when they molt.
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- 90) Grasshoppers are herbivores, which means they only eat plants. What might this mean for vegetations?
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- A. Large groups of grasshoppers can damage crops and plants.
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Grass Hoppers

Name: _____

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|-----------|-----------|-----------|-----------|
| 1. _____ | 26. _____ | 51. _____ | 76. _____ |
| 2. _____ | 27. _____ | 52. _____ | 77. _____ |
| 3. _____ | 28. _____ | 53. _____ | 78. _____ |
| 4. _____ | 29. _____ | 54. _____ | 79. _____ |
| 5. _____ | 30. _____ | 55. _____ | 80. _____ |
| 6. _____ | 31. _____ | 56. _____ | 81. _____ |
| 7. _____ | 32. _____ | 57. _____ | 82. _____ |
| 8. _____ | 33. _____ | 58. _____ | 83. _____ |
| 9. _____ | 34. _____ | 59. _____ | 84. _____ |
| 10. _____ | 35. _____ | 60. _____ | 85. _____ |
| 11. _____ | 36. _____ | 61. _____ | 86. _____ |
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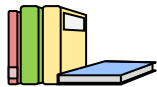


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- | | | | |
|---------------------------------|-----------------------------------|---|---|
| 1. <u> D </u> | 26. <u> true </u> | 51. <u> B </u> | 76. <u> declarative </u> |
| 2. <u> A </u> | 27. <u> true </u> | 52. <u> A </u> | 77. <u> exclamatory </u> |
| 3. <u> D </u> | 28. <u> false </u> | 53. <u> D </u> | 78. <u> declarative </u> |
| 4. <u> A </u> | 29. <u> true </u> | 54. <u> A </u> | 79. <u> exclamatory </u> |
| 5. <u> D </u> | 30. <u> true </u> | 55. <u> C </u> | 80. <u> interrogative </u> |
| 6. <u> A </u> | 31. <u> fact </u> | 56. <u> declarative </u> | 81. <u> exclamatory </u> |
| 7. <u> B </u> | 32. <u> opinion </u> | 57. <u> interrogative </u> | 82. <u> imperative </u> |
| 8. <u> D </u> | 33. <u> fact </u> | 58. <u> declarative </u> | 83. <u> exclamatory </u> |
| 9. <u> D </u> | 34. <u> opinion </u> | 59. <u> declarative </u> | 84. <u> imperative </u> |
| 10. <u> A </u> | 35. <u> fact </u> | 60. <u> declarative </u> | 85. <u> interrogative </u> |
| 11. <u> false </u> | 36. <u> opinion </u> | 61. <u> imperative </u> | 86. <u> declarative </u> |
| 12. <u> false </u> | 37. <u> fact </u> | 62. <u> declarative </u> | 87. <u> B </u> |
| 13. <u> true </u> | 38. <u> fact </u> | 63. <u> exclamatory </u> | 88. <u> A </u> |
| 14. <u> false </u> | 39. <u> opinion </u> | 64. <u> exclamatory </u> | 89. <u> D </u> |
| 15. <u> false </u> | 40. <u> opinion </u> | 65. <u> exclamatory </u> | 90. <u> D </u> |
| 16. <u> false </u> | 41. <u> true </u> | 66. <u> declarative </u> | 91. <u> A </u> |
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12) "I eat meat regularly." (paragraph 2)