Invertebrate Worksheet

| 1. Approximately what percentage of a | inimals are invertebrates? | |
|--|---------------------------------|-------------------------|
| 2. What are invertebrates? | | |
| 3. Arthropod means | appendages. | |
| 4. Give 5 characteristics of all arthrop | pods. | |
| 5. What is ecdysis and why is it necess | sary? | |
| 6. What is the exoskeleton of arthrop | ods composed of? | |
| 7. What is meant by an open circulator | ry system? | |
| 8. Arthropods are divided on the type have ch | | |
| have p | incers called | |
| 9 are exting segmented | | |
| 10 ar | • | • |
| breathe through hollow air tubes calle | | |
| like the cr | | |
| ticks, and scorpions use through | _ | d crustaceans breathe |
| 11. Terrestrial mandibulates are while aquatic crustaceans are appendages. | | |
| 12. Arthropods have a nervous system | with an anterior | and |
| sensory organs that include compound | eyes or simple eyes called | ; |
| membra | nes for hearing; and | for |
| smelling, feeling, or tasting. | | |
| 13 tubu | ıles filter wastes in arthropod | ls. |
| 14. The subphylum Chelicerarta conta | | |
| horseshoe Crab and the class | with spide | rs, ticks, scorpions, & |
| mites. Both classes have | body regions, the | and |

| or fangs. | | |
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| 15. Appendages on the head of chelicerates called | ana i | ised for |
| sensing the environment and getting food into the mo | | 1260 LOL |
| | · | |
| 16. Spiders have posterior glands called | that help make their s | silken |
| webs to get prey. Spiders detect movement wheneve | | |
| and by sensory | | roduce |
| to kill their prey & are beneficia | al because they feed mainly on | |
| · | | |
| 17. Spiders are unlike insects in that they have | not | legs, |
| onlyeyes and not compound | | _ |
| | , 3 | |
| | | |
| 18. Name the body regions of insects and spiders. | | |
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| | | |
| 19 The and | are two noisonous | |
| 19. The and spiders in our area. | are two poisonous | |
| 19. The andspiders in our area. | are two poisonous | |
| spiders in our area. | | |
| | and inclu | |
| spiders in our area. 20. The class Crustacea is in the subphylum,, and | and inclu | des |
| spiders in our area. 20. The class Crustacea is in the subphylum, | and inclu | des |
| spiders in our area. 20. The class Crustacea is in the subphylum,, and, and | and inclu , the terrestrial | des |
| spiders in our area. 20. The class Crustacea is in the subphylum,, and, and & 21. Crustaceans have a pair of sensory | the terrestrial and inclu and inclu the terrestrial | ides |
| spiders in our area. 20. The class Crustacea is in the subphylum,, and,, and 21. Crustaceans have a pair of sensory for balance. The head also | and inclution the terrestrial and a pair of shorter occurrence types of mouthp | des |
| spiders in our area. 20. The class Crustacea is in the subphylum,, and,, and & 21. Crustaceans have a pair of sensory for balance. The head also | and inclution the terrestrial and a pair of shorter contains three types of mouthp, and | ndes |
| spiders in our area. 20. The class Crustacea is in the subphylum, and, and 21. Crustaceans have a pair of sensory for balance. The head also They also have pince | and inclution the terrestrial and a pair of shorter contains three types of mouthp, and | des |
| spiders in our area. 20. The class Crustacea is in the subphylum,, and,, and & 21. Crustaceans have a pair of sensory for balance. The head also | and inclution the terrestrial and a pair of shorter contains three types of mouthp, and | odes |
| spiders in our area. 20. The class Crustacea is in the subphylum, and, and 21. Crustaceans have a pair of sensory for balance. The head also They also have pince | and inclue the terrestrial and a pair of shorter contains three types of mouthp and crs called | odes |
| 20. The class Crustacea is in the subphylum, and, and, and 21. Crustaceans have a pair of sensory for balance. The head also, They also have pince help catch and eat food. | and inclue the terrestrial and a pair of shorter contains three types of mouths and crs called that must | oarts - |
| 20. The class Crustacea is in the subphylum, and decomposed and pair of sensory for balance. The head also They also have pince help catch and eat food. | and inclue the terrestrial and a pair of shorter contains three types of mouths and crs called that must | oarts - |
| 20. The class Crustacea is in the subphylum, and decomposed and pair of sensory for balance. The head also They also have pince help catch and eat food. | and inclue the terrestrial and a pair of shorter contains three types of mouthp and ers called that must | oarts - to |
| 20. The class Crustacea is in the subphylum,, and,,,, | and inclue the terrestrial and a pair of shorter contains three types of mouthp, and ers called that must predators called centipedes with posterior, | oarts to be |
| 20. The class Crustacea is in the subphylum, and decomposed and substitute of sensory, and decomposed and substitute of sensory, for balance. The head also, They also have pince help catch and eat food. 22. Aquatic crustaceans have an external shell or molted, and they are used by man for contains p | and inclue the terrestrial and a pair of shorter contains three types of mouthp, and ers called that must predators called centipedes with posterior, | oarts to be |
| 20. The class Crustacea is in the subphylum | and inclue the terrestrial and a pair of shorter contains three types of mouths, and ers called that must coredators called centipedes with the posterior, | oarts to be |
| 20. The class Crustacea is in the subphylum,, and,,,, | and inclue the terrestrial and a pair of shorter contains three types of mouths, and ers called that must predators called centipedes with posterior, lipedes which are | oarts to be |

| 26. Insects have body regions, | - · · · · · · · · · · · · · · · · · · · |
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| , and a pair of | |
| | are wingless insects, while flies have alancing organs called |
| Their second pair of wings modified into be | diancing organs carea |
| 27. Insects have 4 mouthparts which inclu | ıde the jaw or, the |
| , the lower lip or | , and the upper lip or |
| ·································· | |
| 28. Insect mouthparts are modified accor | ding to their |
| Butterflies have | |
| | mouthparts, and grasshoppers have |
| mouthparts. | |
| 20.145 | |
| 3 3 | the on insects, and some |
| temale insects have an egg laying tube or _. abdomen. | on the end of their |
| | |
| 30. Name 2 ways insects communicate. | |
| * | |
| | |
| 31 Threets detect sound by | membranes on the abdomen and sensory |
| that cover their body | • |
| | |
| 32 along the abdo | men of insects open into their breathing tubes or |
| · | |
| 33 Incacts with | netamorphosis go through egg, larva, pupa, & adult |
| | norphosis go through, |
| , and | · |
| , and | 514g65. |
| 34. Give examples of insects with complet | e and incomplete metamorphosis. |
| , | • |
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| 35 | u umb seie |
| 35 control metar | norphosis. |