**Taxonomy, Classification, and Dichotomous Keys**

Help! Scientists have discovered quite a few new creatures on planet Pamishan. They need your help to identify and classify them. Use the dichotomous key on the next page to identify these creatures.

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| --- | --- | --- | --- | --- |
| 1. http://www.biologycorner.com/resources/pami/pami1.gif | 2. http://www.biologycorner.com/resources/pami/pami2.gif | 3. http://www.biologycorner.com/resources/pami/pami3.gif | 4. http://www.biologycorner.com/resources/pami/pami4.gif | 5. http://www.biologycorner.com/resources/pami/pami5.gif |
| 6. http://www.biologycorner.com/resources/pami/pami6.gif | 7. http://www.biologycorner.com/resources/pami/pami7.gif | 8. http://www.biologycorner.com/resources/pami/pami8.gif | 9. http://www.biologycorner.com/resources/pami/pami9.gif | 10. http://www.biologycorner.com/resources/pami/pami10.gif |
| 11. http://www.biologycorner.com/resources/pami/pami11.gif | 12. http://www.biologycorner.com/resources/pami/pami12.gif | 13. http://www.biologycorner.com/resources/pami/pami13.gif | 14. http://www.biologycorner.com/resources/pami/pami14.gif | 15. http://www.biologycorner.com/resources/pami/pami15.gif |
| 16. http://www.biologycorner.com/resources/pami/pami16.gif | 17. http://www.biologycorner.com/resources/pami/pami17.gif | 18. http://www.biologycorner.com/resources/pami/pami18.gif | 19. http://www.biologycorner.com/resources/pami/pami19.gif | 20. http://www.biologycorner.com/resources/pami/pami20.gif |

**A Key to New Pamishan**

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| 1. | a. The creature has a large wide head............................go to 2 |
|  | b. The creature has a small narrow head..........................go to 11 |
| 2. | a. It has 3 eyes ................................................go to 3 |
|  | b. It has 2 eyes ................................................go to 7 |
| 3. | a. There is a star in the middle of its chest....................go to 4 |
|  | b. There is no star in the middle of its chest ..................go to 6 |
| 4. | a. The creature has hair spikes .................................*Broadus hairus* |
|  | b. The creature has no hair spikes...............................go to 5 |
| 5. | a. The bottom of the creature is arch-shaped ....................*Broadus archus* |
|  | b. The bottom of the creature is M-shaped .......................*Broadus emmus* |
| 6. | a. The creature has an arch-shaped bottom .......................*Broadus plainus* |
|  | b. The creature has an M-shaped bottom...........................*Broadus tritops* |
| 7. | a. The creature has hairy spikes ................................go to 8 |
|  | b. The creature has no spikes....................................go to 10 |
| 8. | a. There is a star in the middle of its body ....................*Broadus hairystarus* |
|  | b. The is no star in the middle of its body .....................go to 9 |
| 9. | a. The creature has an arch shaped bottom .......................*Broadus hairyemmus* |
|  | b. The creature has an M shaped bottum ..........................*Broadus kiferus* |
| 10. | a. The body is symmetrical ......................................*Broadus walter* |
|  | b. The body is not symmetrical...................................*Broadus anderson* |
| 11. | a. The creatrue has no antennae .................................go to 12 |
|  | b. The creature has antennae ....................................go to 14 |
| 12. | a. There are spikes on the face .................................*Narrowus wolfus* |
|  | b. There are no spikes on the face ..............................go to 13 |
| 13. | a. The creature has no spike anywhere ...........................*Narrowus blankus* |
|  | b. There are spikes on the right leg ............................*Narrowus starboardus* |
| 14. | a. The creature has 2 eyes.......................................go to 15 |
|  | b. The creature has 1 eye........................................*Narrowus cyclops* |
| 15. | a. The creature has a mouth......................................go to 16 |
|  | b. The creature has no mouth.....................................go to 17 |
| 16. | a. There are spikes on the left leg .............................*Narrowus portus* |
|  | b. There are no spikes at all ...................................*Narrowus plainus* |
| 17. | a. The creature has spikes ......................................go to 18 |
|  | b. The creature has no spikes ...................................*Narrowus georginia* |
| 18. | a. There are spikes on the head .................................go to 19 |
|  | b. There are spikes on the right leg.............................*Narrowus montanian* |
| 19. | a. There are spikes covering the face ...........................*Narrowus beardus* |
|  | b. There are spikes only on the outside edge of head ............*Narrowus fuzzus* |