**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 Creatures

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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* |
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| Creature No. | Name | Creature No. | Name |
| 1 |  | 11 |  |
| 2 |  | 12 |  |
| 3 |  | 13 |  |
| 4 |  | 14 |  |
| 5 |  | 15 |  |
| 6 |  | 16 |  |
| 7 |  | 17 |  |
| 8 |  | 18 |  |
| 9 |  | 19 |  |
| 10 |  | 20 |  |

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