**CLADOGRAMS**

Use the cladogram to answer questions 1-5 on part 3.



***Trait***:

1. Which animals have claws or nails?
2. Which animals have jaws?
3. What 3 characteristics **separate** perch from pigeons?
4. Which characteristic(s) do salamanders and mice have **in** **common**?
5. Are perch more closely related to hagfish or lizards? How do you know?

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2. On the cladogram below fill in the organisms below in the top boxes. Fill in the traits on the bottom boxes.

**Organisms**: Spider, Worm, Carpenter Ant, Fly

**Trait**: Cells, Legs, 6 legs\*, wings

*\*spiders have 8 legs, ants and flies have 6 legs*

1. According to your cladogram, are worms more closely related to spiders or ants? What evidence did you use to make your decision?



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