

Name: _____ Date: _____ Period: _____

Radiolab, “Devil Tumors” Podcast: Tasmanian Devils (<http://www.radiolab.org/story/91714-devil-tumors/>)

1. In 1996, after many successful trips photographing devils, what change in the devils did the photographer observe?
2. What did they initially believe might be the causing these tumors?
3. What did the scientist notice about the chromosomes inside the tumor? What did this indicate?
4. What causes cells to become cancerous? What causes a cancer cell to become more cancerous?
5. How does this affect the functioning of the cell?
6. How did the tumor jump from one devil to the next?
7. Why can't the devils immune system fight this invading tumor?
8. Why did the tumor accumulate so many advantageous (for it) mutations as it evolved? (Hint: what are the odds?)
9. Using section 10.3 in your text, explain the roles of the cell cycle and apoptosis in cancer.