

He La Cell Production Math

Using your doubling worksheet, calculate the following problems related to He La cell reproduction and the sale of cells for medical purposes.

1. At the end of 29 days, how many He La cells would have been produced? If you are going to package the cells for sale in tubes containing 4 cells, how many tubes would you have for sale?
2. If you packaged the cells in tubes containing 8 cells, how many tubes would you have for sale?
3. In 1951, the tubes sold for \$5.00 each. (This basically covered the cost of sending them to a researcher or lab.) Based on your calculations, how much money would Dr. Gey receive to send the number of tubes in question 1 to others? How much would he receive based on your calculations in question 2?

7. ATCC sells HeLa cells for \$359 to non-profit institutions and \$431 to for-profit entities. What would be the difference in cost for the purchase of 36 vials?

8. If a company bought 12 vials of He La cells from BioTang at \$198 a vial, and then resold them on the internet for \$389 a vial, how much profit would the company make?

9. If BioTang charged shipping and handling, according to the chart below, how much would the company pay to have the above order shipped?

Number of Vials	Cost
1 - 10	\$5.25
11 - 20	\$10.50
21 - 30	\$15.75
31 - 40	\$21.00

10. What would the cost of shipping be for 36 vials? What would be the total cost for this order?