Name _____ Date _____ Period _____

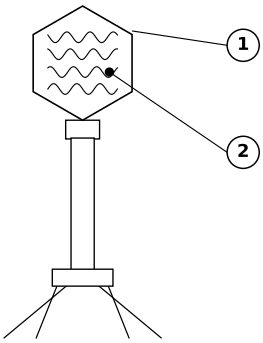
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Viruses

Biology

Answer in complete sentences. Use the drawings and the graph as evidence.

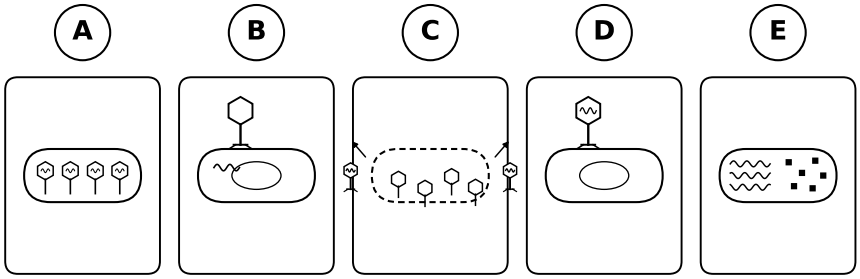
1. The drawing shows a virus that infects bacteria.



(a) Name part 1.

(b) Name part 2.

2. The drawings show the steps of the lytic cycle out of order.



(a) Write the letters in the correct order.

(b) In which step do the host's ribosomes make viral proteins?

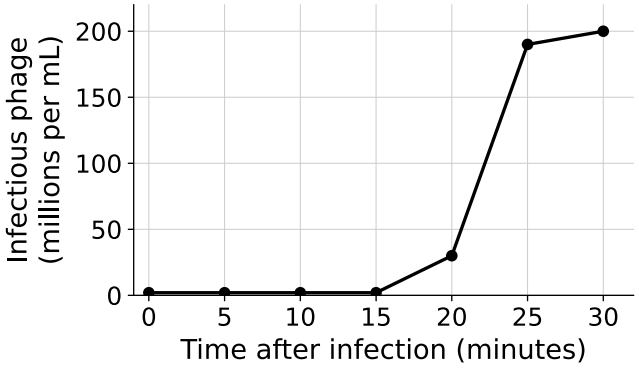
3. Compare the lytic and lysogenic cycles.

(a) In which cycle does the host cell burst soon after infection?

(b) In the lysogenic cycle, what happens to the viral DNA, and what happens to it when the host cell divides?

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4. Bacteria were infected with phage. At the start, 2 million bacteria per mL were infected. An infected bacterium counts as one infectious unit until it bursts.



(a) How many minutes pass before the number of infectious units starts to rise?

(b) How many new phage did each infected bacterium release, on average?

5. Scientists disagree about whether viruses are alive.

(a) Give one trait of viruses that supports calling them alive.

(b) Give one trait that supports calling them nonliving.

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