

Cell Division and Mitosis Worksheet

Exercise 3

Part 3c. The G1 cell on your mat board presently contains a total of _____ chromosomes, each of which is _____ stranded. There are _____ pairs of homologous chromosomes in the cell. Because

prokaryote cells.

Prokaryote cell part	Description

prokaryote lifestyle

Prokaryote example	Description

its method of getting energy/food:

Prokaryote example	Description

eukaryotic (circle one)

Prokaryote	Eukaryote	Yeast cell	P	E
Prokaryote	Eukaryote	E. coli cell	P	E

3. List and describe 8 part of prokaryote cells.

Prokaryote cell part	Description

4. Match each example with a prokaryote lifestyle.

Prokaryote example	Description
	Sticky covering on teeth and tongue
	Stringy, slimy pond scum
	Swimming around by themselves

5. Match each prokaryote with its method of getting energy/food:

Prokaryote example	Description
	Cyanobacteria growing as a slimy layer on a pond. Green in color.
	Staphylococcus bacteria growing on a person's skin and causing an infection
	E. coli bacteria living inside a human's colon, producing B vitamins.
	Soil bacteria causing a dead mouse to rot away

6. Label each as prokaryotic or eukaryotic (circle one)

Plant cell	P	E
Staphylococcus cell	P	E