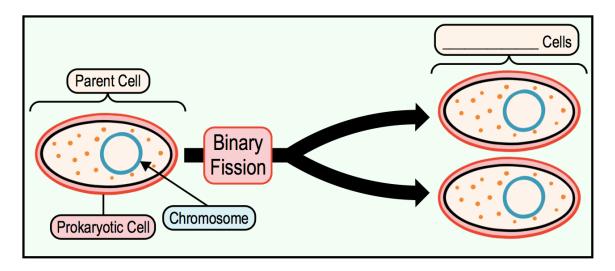
CONCEPT: BINARY FISSION

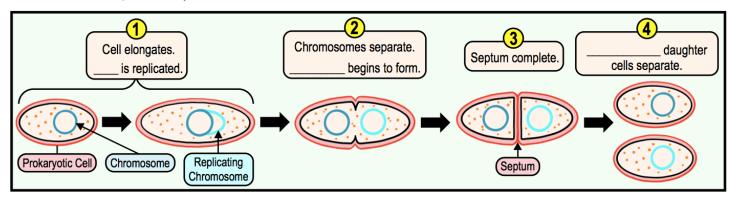
- Recall: Prokaryotes replicate by the process of binary fission BUT Eukaryotes do _____.
- •_____ Fission: prokaryotic asexual reproduction; one cell divides to form _____ new daughter cells.
 - □ **Daughter cells:** either of the two _____ cells that form after a cell *divides*.



Steps of Binary Fission

- Binary fission occurs in a series of _____ steps:
 - 1 Cell elongates its cell envelope & _____ in overall size as the DNA is _____.
 - 2 Replicated DNA moves towards opposite ends of cell as the _____ forms.
 - □ **Septum:** partition that forms in the center of a *dividing cell*.
 - 3 Septum completely forms creating ____ separate cells still connected.
 - 4 Cells completely _____ into 2 identical daughter cells.

EXAMPLE: The steps of binary fission.



•The _____ that it takes a cell to undergo binary fission is called the generation time.

CONCEPT: BINARY FISSION

PRACTICE: The cellular process by	which two cells	arise from one	is known as:
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a)) (Con	juga	ation.

- b) Meiosis.
- c) Binary fission.
- d) Mitosis.

PRACTICE: The partition between daughter cells that is a result of the inward growth of the bacterial cell wall from opposite directions is known as the:

- a) Z-ring.
- b) Septum.
- c) Fission wall.
- d) Dividing factor.

PRACTICE: The time required for a cell to undergo binary fission is called the:

- a) Growth phase.
- b) Duplication time.
- c) Fission time.
- d) Generation time.