

1. E. coli bacteria Quadruple in population every twenty minutes. If the initial population is 10 complete the following:

a. Complete the following table showing the predicted population

	0	1	2	3	4	5	6
Population							

b. $y =$ Rule: _____

c. Recursive Rule _____

d. How many bacteria are present at 5 hours?

e. When does E. coli reach 658?

1. E. coli bacteria Quadruple in population every twelve minutes. If the initial population is 10 complete the following:

a. Complete the following table showing the predicted population

	0	1	2	3	4	5	6
Population							

b. $y =$ Rule: _____

c. Recursive Rule _____

d. How many bacteria are present at 3 hours?

e. When does E. coli reach 658?

2. E. coli bacteria doubles in population every quarter hour. If the initial population is 8 complete the following:

a. Complete the following table showing the predicted population

	0	1	2	3	4	5	6
Population							

b. $y =$ Rule: _____

c. Recursive Rule _____

d. How many bacteria are present at 5 hours?

e. When does E. coli reach 658?

3. E. coli bacteria grows by 1.5 in population every 10 minutes. If the initial population is 16 complete the following:

a. Complete the following table showing the predicted population

	0	1	2	3	4	5	6
Population							

b. $y =$ Rule: _____

c. Recursive Rule _____

d. How many bacteria are present at 5 hours?

e. When does E. coli reach 658?

4. E. coli bacteria grows by tripling in population every 5 minutes. If the initial population is 2 complete the following:

a. Complete the following table showing the predicted population

	0	1	2	3	4	5	6
Population							

b. $y = \text{Rule:}$ _____

c. Recursive Rule _____

d. How many bacteria are present at 5 hours?

e. When does E. coli reach 658?

5. E. coli bacteria grows by tripling in population every 30 minutes. If the initial population is 2 complete the following:

a. Complete the following table showing the predicted population

	0	1	2	3	4	5	6
Population							

b. $y = \text{Rule:}$ _____

c. Recursive Rule _____

d. How many bacteria are present at 5 hours?

e. When does E. coli reach 658?