

Science In Action 9 - Numerical Response Questions - Biological Diversity

1. Interdependence of species within the environment is necessary for survival. Symbiosis is an association between members of different species.

- 1- one organism benefits the other doesn't
- 2- one organism benefits, the other is harmed
- 3- one organism appears to be like another organism
- 4- both organisms benefit

1 commensalism 4 mutualism 2 parasitism 3 mimicry

1	4	2	3
.	.	.	.
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

2. Match the type of Asexual Reproduction described below.

- 1- the parent produces a smaller version of itself
- 2- the parent cell splits in two
- 3- reproduction not involving seeds
- 4- reproduction similar to seeds, but produced by the division of cells

3 Vegetative reproduction 4 Spore production 2 Binary fission 1 Budding

3	4	2	1
.	.	.	.
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

3. Organisms of the same species have the same number of chromosomes. What is the number of chromosomes that all humans have?

Hint: The number of chromosomes represents a complete set.

4	6		
.	.	.	.
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

4. The reduction of diversity has resulted in species being listed on Protection Lists. Match the treat to the term it describes.

- 1- none in a local area
- 2- none in the world
- 3- very few left in the world
- 4- numbers are being reduced

3 Endangered 1 Extirpated 4 Threatened 2 Extinct

3	1	4	2
.	.	.	.
0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9