

Name \_\_\_\_\_

Date \_\_\_\_\_

## Assessment

## Topic 1.1

8. "Continuity" is dependent on whether living things
- grow.
  - reproduce.
  - use energy.
  - respond to stimuli.
9. If continuity did not occur for a species, then that species would face the threat of
- isolation.
  - extinction.
  - habitat loss.
  - propagation.
10. Which of the following is associated with asexual reproduction?

I	one parent
II	genetic variation between offspring
III	offspring have the exact genetic makeup as the parent

- I and II only
- I and III only
- II and III only
- I, II, and III

11. Which of the following is an example of asexual reproduction?

- a *paramecium* splits into two new organisms
- a black-capped chickadee uses a variety of songs to attract mates
- a checkerspot butterfly transfers pollen from one wildflower to another
- a male red fox successfully courts a vixen, resulting in a litter of four kits

12. A horse has 64 chromosomes. During sexual reproduction, how many chromosomes does each of the parents contribute to the offspring?

	Male Horse	Female Horse
A.	32	32
B.	32	64
C.	64	32
D.	64	64

13. What are the building blocks of DNA called?

- sugars
- chromatins
- nucleotides
- chromosomes

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14. What do asexual reproduction and sexual reproduction have in common?
- They both require the individual finding a mate.
  - They both result in genetically identical individuals.
  - They both involve the parent inheriting DNA from the offspring.
  - They both involve the passing on of genetic material to future generations.
15. Which of the following describes the results of most cases of sexual reproduction?

I	offspring are genetically different from parents
II	offspring are genetically identical to both parents
III	offspring are genetically different from each other

- I and II only
- I and III only
- II and III only
- I, II, and III

16. Chromosomes consist of which of the following?

I	DNA
II	nucleotides
III	A, C, T, and G

- I and II only
  - I and III only
  - II and III only
  - I, II, and III
17. What determines the colour of a grizzly bear's fur?
- the DNA sequence
  - the type of nucleotides
  - the size of the chromatin
  - the number of chromosomes
18. Complete the Venn diagram to compare and contrast chromosome and chromatin.

