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Open

Mutations Worksheet Name \_\_\_\_\_ Date: \_\_\_\_\_ Per. \_\_\_\_\_

There are three main types of mutations: point missense mutations, point nonsense mutations, and frameshift mutations. In each of the following DNA sequences, you will use the mRNA and amino acid sequences to identify the mutation that occurred and the effects of each one, if any. Look and analyze carefully! 10 points

Original DNA Sequence:	T A C A C C T T G G C G A C G A C T
mRNA Sequence:	A U G B O G A A C C G C U C C U G A
Protein Sequence:	M E F D A A S P R Q E D

Mutated DNA Sequence #1: T A C A T C T T G G C G A C G A C T

What's the mRNA sequence? AUG UAG AAC CGC UGC UGA (Circle the changes)

What will be the amino acid sequence? **Met stop**

Will there likely be effects? Yes. No protein is translated. What kind of mutation is this? Substitution Point missense.

Model-ADSN3, Scenario #2: T A C G A C C T T C G G G A C C A C T

What's the mRNA sequence? **AUG UGG GAC C G G G G A** (Circle the start site)

What will be the amino acid sequence? Met-Lys-Glu-Phe-Lys

Will there likely be effects? Non-stop coding proteins could be produced since there's no stop codon and *stop*

will there likely be effects (e.g., useless, damaging) protein could still be created. What kind of mutation is this? Insertion, frameshift?

Mutated DNA Sequence #3: T A C A C C T T A G C G A C G A C T

What's the mRNA sequence? **AUG UGG AAU CGC UGC UGA** (Circle the change)

What will be the amino acid sequence? Met Thr Asn Arg Cys stop

Will there likely be effects? **NO** What kind of mutation is this? Substitution, Silent mutation due to redundancy in codons

Mutated DNA Sequence #4: T A C A C C T T G G C G A C T A C T

What's the mRNA sequence? **AUG UGG AAC CGC UGA UGA** (Circle the change)

What will be the amino acid sequence? Met Trp Asn Arg stop

Will there likely be effects? Possibly, depends what role that last, one and only missing aa plays in the shape of the protein. What kind of mutation is this? Point- substitution, missense.

Mutated DNA Sequence #5: T A C A C C T T G G G A C G A C T

What will be the corresponding mRNA sequence? **AUG UGG AAC CCU GCU GA**

What will be the amino acid sequence? Met Thr Asn Pro Ala

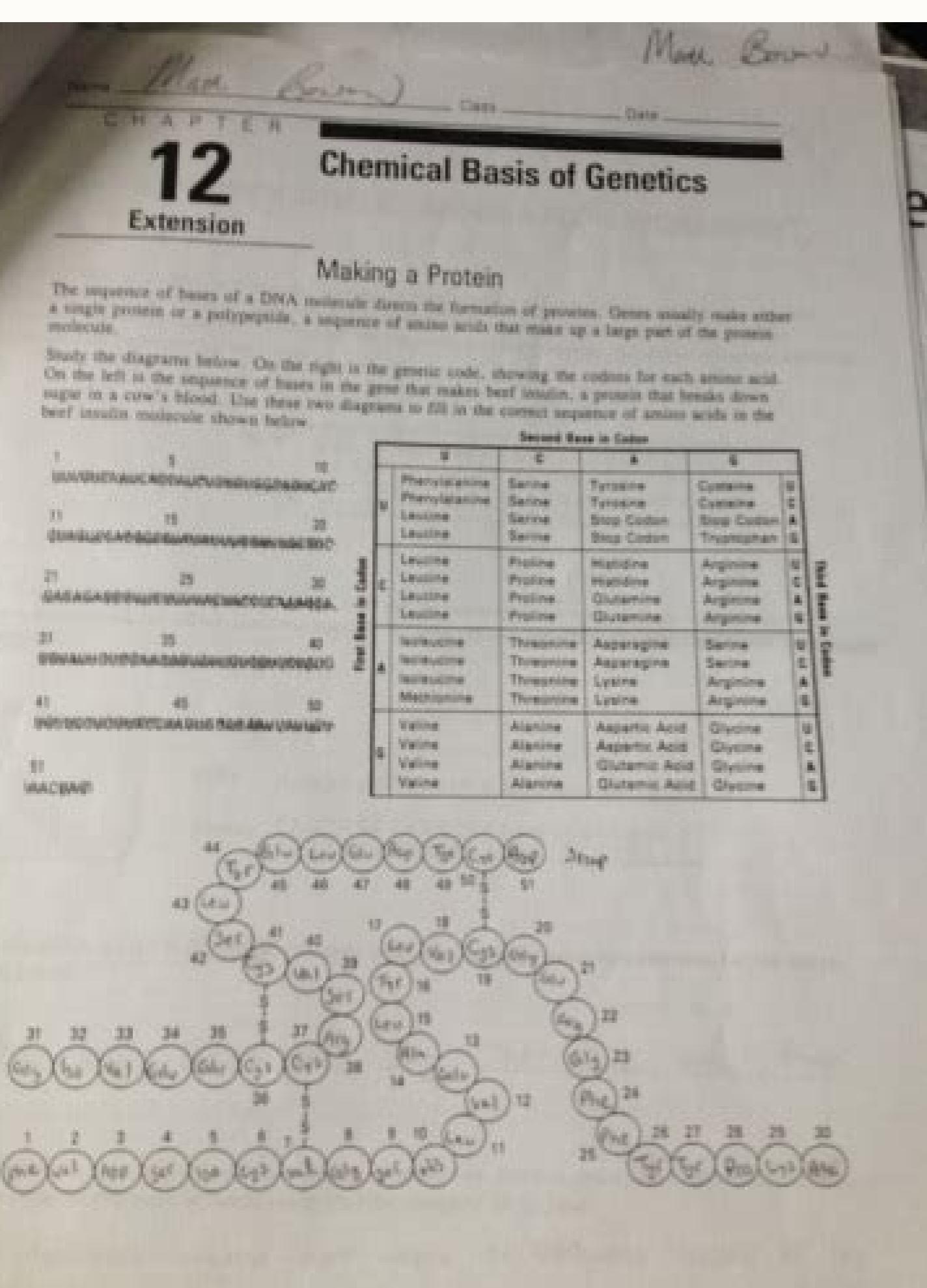
Will there likely be effects? yes. What kind of mutation is this? **POINT, DELETION, MISSENSE, frameshift**

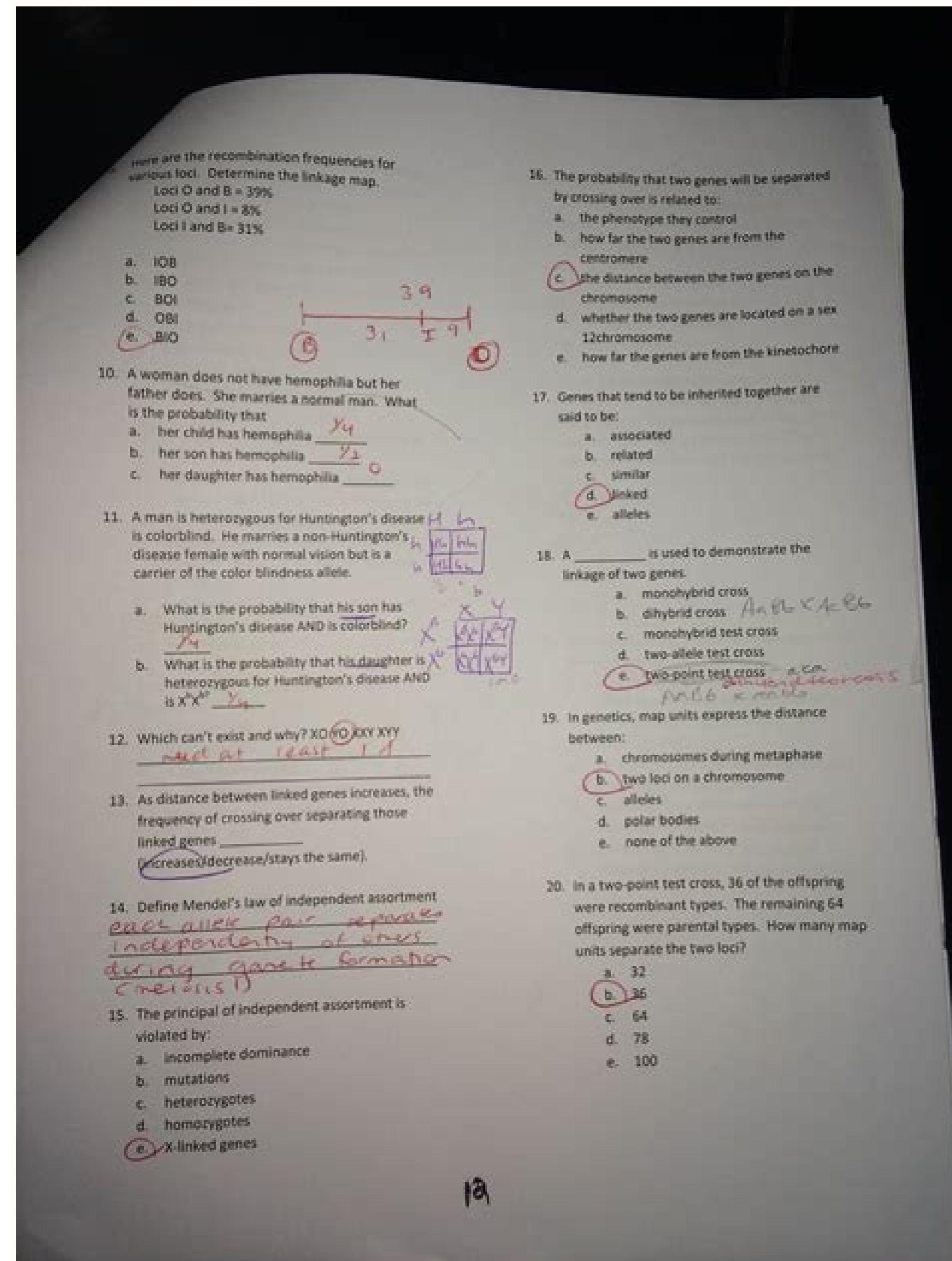
1. Which type of mutation is responsible for new variations of a trait? **substitution**
  2. Which type of mutation results in abnormal amino-acid sequence? **frameshift**
  3. Which type of mutation stops the translation of the mRNA? **Point mutation producing a stop codon after Met**
  4. Which type of mutation is responsible for a new trait? \_\_\_\_\_

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

### Life of Mammals: Plant Predators

- 1-The e\_\_\_\_\_ is the biggest plant predator.
- 2-The sloth must be slow moving to use very little e\_\_\_\_\_ because it only eats l\_\_\_\_\_.
- 3-Leaves are hard to d\_\_\_\_\_.
- 4-The sloth only leaves the trees to defecate (poop) once a w\_\_\_\_\_. When the sloth is on the ground it is h\_\_\_\_\_. As soon as its able it returns to the canopy of the forest.
- 5-Because leaves offer little nutrition, sloths have very small m\_\_\_\_\_. They hand on tree branches with their c\_\_\_\_\_.
- 6-Nutrients in leaves are locked in hard to d\_\_\_\_\_ cellulose walls.
- 7-Plants defend themselves with spines and p\_\_\_\_\_ like strychnine. Tapir in the South American Rain Forest eat only a little of each kind of leaf so that they don't ingest a l\_\_\_\_\_ dose of one type of poison.
- 8-Tapir also eat c\_\_\_\_\_ to neutralize plant poisons.
- 9-Pika forage for food in the Canadian Rockies. They stay close to their burrows to protect themselves from predation by e\_\_\_\_\_.
- 10-Pika store several feet of plants in their burrows in order to survive the w\_\_\_\_\_. Those plants that are the most p\_\_\_\_\_ are placed the deepest in their burrows. The most poisonous plants will stay f\_\_\_\_\_ the longest.
- 11-There are caves in East Africa with long grooves that have been etched into them. The caves contain a m\_\_\_\_\_ that is important to many herbivores because they can't get enough minerals from a p\_\_\_\_\_ based diet. Elephants made the cave's grooves with their tusks as they mined for s\_\_\_\_\_.
- 12-Plant-eating animals often have teeth that grow up as they get worn down. Many plant-eating animals also digest their food t\_\_\_\_\_.
- 13-Plant-eating animals that masticate (chew) twice can keep their h\_\_\_\_\_ up the second time and watch for danger.
- 14-N\_\_\_\_\_ return to the land as the plant-eating animals defecate (poop).
- 15-Seasonal grazers must m\_\_\_\_\_ to find food when grasses in one area die off. As they do, they may be preyed upon.
- 16-Wildebeests follow trails in the grass. They can detect the grassy areas with the richest p\_\_\_\_\_ content.
- 17-When wildebeests eat grass, they do not damage the s\_\_\_\_\_, unlike thorny acacia bushes/trees. Acacia bushes/trees compete with g\_\_\_\_\_.
- 18-The dik dik can feed on l\_\_\_\_\_ growing branches of acacia bushes/trees. Impalas can reach higher b\_\_\_\_\_ on the trees. Gerenuks stand on \_\_\_\_\_ to reach even higher on the acacia's tallest branches.





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