Modeling Practice Worksheet

Name

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1. Many scientific models are created with computers because only computers can efficiently manipulate such enormous amounts of data.

   a. TRUE
   b. FALSE

2. Which statement is true about models?

   a. Models deal with only a portion of a system because most systems are too complex.
   b. Models can't be used for making predictions.
   c. It is harder to work with a model than with a natural system.
   d. All of the above

3. What are some limitations of scientific models?

   a. Models only show a portion of a system
   b. Models are more complicated than the real object or system
   c. Models include too many variables that affect predictions
   d. All of these

4. A physical model can be explained as a type of scientific model which is a smaller and simpler representation of the things being studied.

   a. TRUE
   b. FALSE

5. _____ models tie together many ideas about a phenomenon or system and are represented in an abstract way.

   a. Conceptual
   b. Physical
   c. Both A and B
   d. None of the above

6. Models can be used to make predictions.

   a. TRUE
   b. FALSE

7. Physical models are higher versions of reality.

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a. TRUE
b. FALSE

8. Which model ties together many ideas to explain a phenomenon or event?

a. Physical model
b. Conceptual model
c. Biological model
d. Mathematical model

9. Fill in the blank(s):
Complete the sentence using the word Conceptual, Physical, or Mathematical.
_____ models use equations to describe reality.

10. A globe is an example of a

a. Mathematical model
b. Conceptual model
c. Physical model
d. None of the above

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