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**PRE**
Born of Blood: Inheritance of Blood Types, Part 4
Pilot Pre/Post Test – ANSWER SHEET

For each item, carefully color in the circle with the letter that corresponds to the answer you choose.
You may use available white space for sketches or calculations as needed.

1.  A  B  C
2.  A  B  C
3.  A  B  C
4.  A  B  C
5.  A  B  C
6.  A  B  C
7.  A  B  C
8.  A  B  C
9.  A  B  C
10. A  B  C
11. A  B  C
12. A  B  C  D
13. A  B  C  D
14. A  B  C  D

POST
1. In the model described, the two pieces of curling ribbon represent a
   a. chromosome pair (dyad).

2. In this same curling ribbon model, what does the sticky dot represent?
   b. kinetochore

3. The blood type gene is found on the ____ of chromosome 9.
   b. long arm

4. The genes that code for blood type are found on the
   a. chromosomes of most body cells.

5. When any one of the ABO genes is present, it is expressed; thus the ABO genes are ____ genes.
   c. co-dominant

6. In which blood type are the “H” antigens on human red blood cells left unchanged?
   c. O

7. In the case of AB blood type, the “H” antigens on human red blood cells have been changed into
   c. “A” and “B” antigens.

8. The presence of a B gene and an O gene yield type B blood because the “H” antigens on the red blood
   cells are changed by the type B gene, thus expressing only the
   b. B gene.

9. What is the blood type of a child who inherited a gene for blood type A from its mother and a gene for blood
   type O from its father?
   a. type A

10. What are the possible blood types of children born to a father with type AB blood and a mother with type A
    blood (an A gene and an O gene present)?
    a. Types A, AB, B

11. It is possible for parents who both have type A blood to have a child who is type O if both parents have
    b. one type A gene and one type O gene.

12. What are the possible blood types of children born to parents who both have type O blood?
    d. type O

13. What are the possible blood types of children born to a mother with type A blood (AA) and a
    father with type B blood (BB)?
    c. type AB

14. Examine the Punnett Square drawn on the right. What are the possible blood types of children born to this
    couple?
    b. types AB, B