Name: _____

Sampling and Inference Review

Answer each question.

1. Is this sample random or biased? A survey is done by picking 50 names at random from the whole school list.

Answer: _____

2. In a random sample of 80 students, 17 prefer pizza for lunch. There are 600 students in the school. Predict how many prefer pizza.

Answer: _____

3. Team A's mean score is 16 and Team B's mean score is 13. Both have a MAD of 6. How many MADs apart are the means?

Answer: _____

4. Is this sample random or biased? A survey is done by surveying only the 6th graders about the whole school's lunch.

Answer: _____

5. In a random sample of 40 students, 22 prefer pizza for lunch. There are 500 students in the school. Predict how many prefer pizza.

Answer: _____

6. Team A's mean score is 12 and Team B's mean score is 30. Both have a MAD of 3. How many MADs apart are the means?

Answer: _____

7. In a random sample of 80 students, 14 prefer pizza for lunch. There are 500 students in the school. Predict how many prefer pizza.

Answer: _____

8. Team A's mean score is 18 and Team B's mean score is 24. Both have a MAD of 5. How many MADs apart are the means?

Answer: _____

9. In a random sample of 50 students, 7 prefer pizza for lunch. There are 800 students in the school. Predict how many prefer pizza.

Answer: _____

10. Team A's mean score is 27 and Team B's mean score is 18. Both have a MAD of 2. How many MADs apart are the means?

Answer: _____

Name: **ANSWER KEY**

Sampling and Inference Review

Answer each question.

1. Is this sample random or biased? A survey is done by picking 50 names at random from the whole school list.

   Answer: random

2. In a random sample of 80 students, 17 prefer pizza for lunch. There are 600 students in the school. Predict how many prefer pizza.

   Answer: about 128 students

3. Team A's mean score is 16 and Team B's mean score is 13. Both have a MAD of 6. How many MADs apart are the means?

   Answer: $\frac{1}{2}$ MADs

4. Is this sample random or biased? A survey is done by surveying only the 6th graders about the whole school's lunch.

   Answer: biased

5. In a random sample of 40 students, 22 prefer pizza for lunch. There are 500 students in the school. Predict how many prefer pizza.

   Answer: 275 students

6. Team A's mean score is 12 and Team B's mean score is 30. Both have a MAD of 3. How many MADs apart are the means?

   Answer: 6 MADs

7. In a random sample of 80 students, 14 prefer pizza for lunch. There are 500 students in the school. Predict how many prefer pizza.

   Answer: about 88 students

8. Team A's mean score is 18 and Team B's mean score is 24. Both have a MAD of 5. How many MADs apart are the means?

   Answer: $1\frac{1}{5}$ MADs

9. In a random sample of 50 students, 7 prefer pizza for lunch. There are 800 students in the school. Predict how many prefer pizza.

   Answer: 112 students

10. Team A's mean score is 27 and Team B's mean score is 18. Both have a MAD of 2. How many MADs apart are the means?

    Answer: $4\frac{1}{2}$ MADs