

Name \_\_\_\_\_

Date \_\_\_\_\_

## Statistical Variability in Data - Independent Practice Worksheet

Complete all the problems. Make sure to draw pictures to help you solve the problems.

1. Mr. Steven tested the 7 most intelligent teachers at the school.

Is this a random sample of the teachers at the school?

Yes \_\_\_\_\_

No \_\_\_\_\_

2. Kelly collected 3 written pages from every kid in her hobby class.

Is this sample of the writing pages completed by the kids likely to be biased?

Yes \_\_\_\_\_

No \_\_\_\_\_

3. After one week in our school, a debate competition is going to be held. Which of the following questions would provide you with the best hard data that you could use to find the names of the participants?

- a) Are you in my class?
- b) Did you ever enter a debate?
- c) Have you ever been in a debate competition?
- d) Will you be in the debate competition?

4. A police inspector searched the 10 thieves at shopping mall.

Is this sample of the mall's customers likely to be representative?

Yes \_\_\_\_\_

No \_\_\_\_\_



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5. Jordan plucked some rose flowers and kept them in a box. Then he put on a blindfold and picked 15 flowers from the box.

Is this a random sample of the rose flowers in the box?

Yes \_\_\_\_\_

No \_\_\_\_\_

6. Kate and her friends are planning to move away for a long time. Which of the following questions would provide you with hard data that you could use to get the total number of Kate's friends?

- a) Do you know any other language except English?
- b) Who did Kate invite to her birthday party last year?
- c) How old are you?
- d) How many dresses you have?

7. Lily took a handful candies from the bag and threw it down. She picked 8 toffees which were on the table.

Is this a random sample of the toffees?

Yes \_\_\_\_\_

No \_\_\_\_\_

8. Harry collected some papers from the file and threw them in the air. He then tore 5 papers that landed on the bed.

Is this a random sample of the papers?

Yes \_\_\_\_\_

No \_\_\_\_\_



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9. When I was in market, many of the floral shops were closed. Which of the following questions would provide you with hard data that you could use to find the reason for it?

- a) Do you like chocolates?
- b) Shall we go for a picnic?
- c) Why don't you try this product?
- d) Why is there a shortage of flowers in the market?

10. Lisa "High-Fived" 90 students in the college during the fest.

Is this sample of the students in the college likely to be biased?

Yes \_\_\_\_\_

No \_\_\_\_\_

