Representative samples; discrete and continuous data worksheet – Grade 6

Grade 6 · Mixed level · 20 questions · **Version X5772**

Name: _____ Date: _____ Score: ___ / 20

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1. Dev records the mass of an apple. What type of data is this?
   A. Discrete **B.** Continuous

2. Priya records the number of goals in a game. What type of data is this?
   A. Discrete **B.** Continuous

3. Which word describes the amount of rain in a day?
   A. Discrete **B.** Continuous

4. Kai records the length of a river. What type of data is this?
   A. Discrete **B.** Continuous

5. Is the number of books on a shelf discrete or continuous?
   A. Discrete **B.** Continuous

6. Which word describes the height of a plant?
   A. Discrete **B.** Continuous

7. Lucas records the height of a plant. What type of data is this?
   A. Discrete **B.** Continuous

8. Liam surveys only families at the parent meeting to learn about all the families at the school. Is the sample representative?
   A. Yes **B.** No

9. Mateo surveys only the Grade 8 class to learn about all students in the school. Is the sample representative?
   A. Yes **B.** No

10. Isla surveys only customers on Monday morning to learn about all the customers of a store. Is the sample representative?
    A. Yes **B.** No

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11. A survey must stand for everyone in the town. Which sample is representative?

    A. only people at the arena **B.** people picked at random from the town list

    C. only the people who ask to join **D.** only friends of the person asking

12. Dev surveys people picked at random from the town list to learn about everyone in the town. Is the sample representative?

    A. Yes **B.** No

13. Maya surveys a few students from every grade and class to learn about all students in the school. Is the sample representative?

    A. Yes **B.** No

14. Jayden surveys a random draw from the family list to learn about all the families at the school. Is the sample representative?

    A. Yes **B.** No

15. A random sample of 40 light bulbs has 20 that are faulty. About how many of 1000 bulbs would be faulty?

    Answer: _____

16. In a representative sample of 50 students, 4 ride a bike to school. About how many of the 250 students at the school ride a bike?

    Answer: _____

17. 12 of 40 people in a fair sample prefer tea. What percent is that?

    Answer: _____

18. Which change makes a survey more trustworthy?

    A. A larger random sample **B.** Asking only friends **C.** Leading questions

    D. Throwing out answers you dislike

19. In a representative sample of 40 students, 18 ride a bike to school. About how many of the 400 students at the school ride a bike?

    Answer: _____

20. 18 of 50 people in a fair sample prefer tea. What percent is that?

    Answer: _____

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Answer key · Version X5772

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1. **B (Continuous)**
2. **A (Discrete)**
3. **B (Continuous)**
4. **B (Continuous)**
5. **A (Discrete)**
6. **B (Continuous)**
7. **B (Continuous)**
8. **B (No)**
9. **B (No)**
10. **B (No)**
11. **B (people picked at random from the town list)**
12. **A (Yes)**
13. **A (Yes)**
14. **A (Yes)**
15. **500**
16. **20**
17. **30%**
18. **A (A larger random sample)**
19. **180**
20. **36%**

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