

1. Which of these scenarios describes something that's precise, but not accurate?

- a. A field goal kicker who misses wide right on ten straight attempts
- b. A baseball player who hits safely in 56 consecutive games
- c. A darts player who hits nine straight bullseyes in a row
- d. A hockey player whose shots miss the net in all directions

2. Which of these scenarios describes something that's accurate, but not precise?

- a. A thermometer that reads 36 degrees, when the actual temperature is 37 degrees
- b. Making an educated guess on a test question and getting the wrong answer
- c. An archer who hits the same spot on her target 10 times in a row
- d. A stopwatch that correctly measures time to the nanosecond

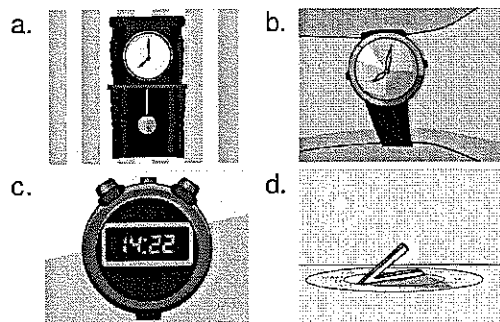
3. Someone asks you for the time. Your digital watch says it's 11:14 and 10 seconds. Under ordinary circumstances, you'd say it's:

- a. 11:14 and ten seconds
- b. 11:14
- c. 11:15
- d. 11:00

4. What most directly affects the precision of your measurements?

- a. The number of times you measure an object
- b. The size of the object you are measuring
- c. How quickly you take your measurements
- d. How carefully you measure and the tools you use

5. Which of these instruments is the most precise?



6. Somebody asks you to divide 4 by 7. Under ordinary circumstances, your answer would be:

- a. 0.57142857142857142857
- b. 0.571428571428
- c. 0.571428
- d. 0.57

7. Which unit of measurement will give the most precise result?

- a. Millimeters
- b. Centimeters
- c. Meters
- d. Kilometers

8. You shoot four arrows. All of them hit the target, but they aren't grouped close together. Your shooting was:

- a. Both accurate and precise
- b. Neither accurate nor precise
- c. Accurate but not precise
- d. Precise but not accurate

9. Accuracy compares a measurement to:

- a. Other measurements taken by the same method
- b. A theoretical value
- c. A real-world value
- d. Other measurements taken by different methods

10. The most accurate and precise archer in the world will:

- a. Shoot all her arrows through the exact same spot five inches from the bullseye
- b. Shoot all her arrows through the exact same spot on the bullseye
- c. Shoot all her arrows within five inches of the bullseye
- d. Shoot all her arrows in a circle surrounding the bullseye