

Circle the best answer for each question.

1. Hala is conducting an experiment to see if the height from which she drops a rubber ball will affect the height to which the ball bounces. Which is the independent variable in her experiment?

**A** the rubber ball  
**B** the height from which the ball is dropped  
**C** the height the ball bounces  
**D** the mass of the ball

2. The table below shows the spring temperatures and rainfall averaged by month for two cities.

| City A              | March | April | May  |
|---------------------|-------|-------|------|
| Average Temperature | 6°C   | 12°C  | 19°C |
| Average Rainfall    | 43cm  | 38cm  | 8cm  |

  

| City B              | March | April | May  |
|---------------------|-------|-------|------|
| Average Temperature | 5°C   | 9°C   | 12°C |
| Average Rainfall    | 10cm  | 71cm  | 41cm |

Which conclusion can be drawn from the data?

- A** City A has colder spring temperatures than City B.  
**B** The spring temperatures in City A do not vary as much as the spring temperatures in City B.  
**C** City A receives more rainfall than City B throughout spring.  
**D** City B has cooler spring temperatures than City A and receives more rainfall in April and May.

3. Faris is conducting a scientific investigation using the tool below. Which metric system unit is Faris most likely to record with his data?



- A** grams  
**B** pounds  
**C** meters  
**D** cubic centimeters
4. Which type of graph should be used to show the composition of gases in Earth's atmosphere?
- A** line graph  
**B** scatter plot  
**C** bar graph  
**D** circle graph
5. Which is an accurate description of the liquids below?



- A** The liquid in the middle beaker is darker in color than the other liquids.  
**B** The liquid in the beaker on the right is lighter in color because the liquid is more concentrated.  
**C** The liquids all have the same mass.  
**D** The differences in color are a result of the different solutes in the liquids.