

**Exam not valid for Paper Pencil Test Sessions**

1 **Which unit of measure would be best used for describing the mass of one strawberry?**

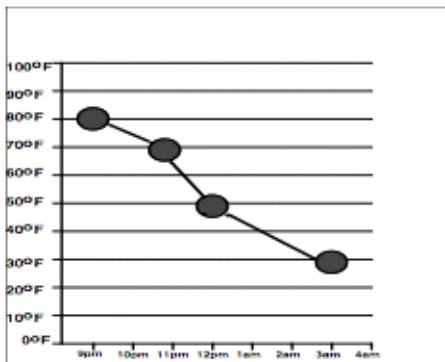
- A Gram
- B Centimeter
- C Kilogram
- D Meter

2 **Which two tools would be best to measure the width and mass of a toy car?**



- A Thermometer and graduated cylinder
- B Ruler and thermometer
- C Ruler and pan balance
- D Pan balance and thermometer

3 **This graph shows temperatures recorded during the night.**



**Estimate the temperature at 4am.**

- A 20°F
- B 50°F
- C 75°F
- D 85°F

- 4 **By August, a student noticed that the sunflowers outside his house were as tall as the back door of his house. About how tall were the sunflowers?**
- A 0.2 meters
  - B 2 meters
  - C 20 meters
  - D 200 meters

5 This is a drag and drop style question. Drag the items from the right to their correct place on the left.

**Correctly match the steps of the scientific method in the investigation given.**

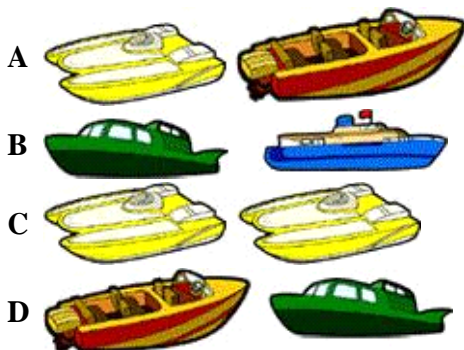
Plant growth in centimeters    Dependent variable

Type of plant, soil, amount of water    Constants

If the plant is placed in the closet,  
then it will grow the least    Hypothesis

Plant A at the window,  
Plant B in the closet and  
Plant C in the bathroom    Independent variable

- 6 **A person was interested in finding out whether a boat would get better fuel mileage traveling at 15 mph or at 25 mph. Which set of boats should they use in the experiment to make it fair?**



7 This is a "Hot Spot" style question. Choose all correct answers.

**Choose all the statements that are inferences rather than observations for the picture shown.**



The bicycle has a flat tire.

The boy is in middle school.

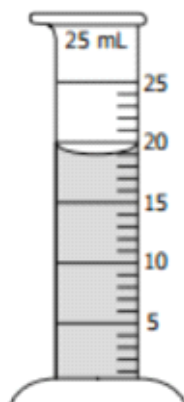
The bicycle has two wheels.

The boy fell off the bicycle.

The bicycle can go fast.

The boy is upset.

8 **What is the volume in this graduated cylinder?**



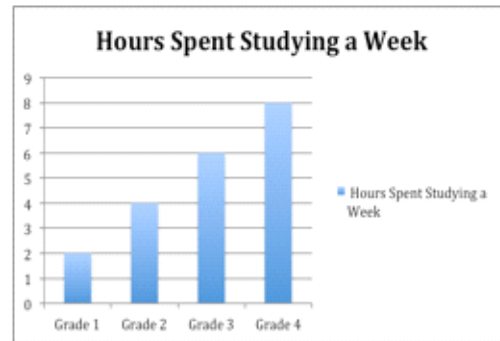
- A 19 ml
- B 20 ml
- C 21 ml
- D 33ml

9 Which of the following graphs shows unusual data?

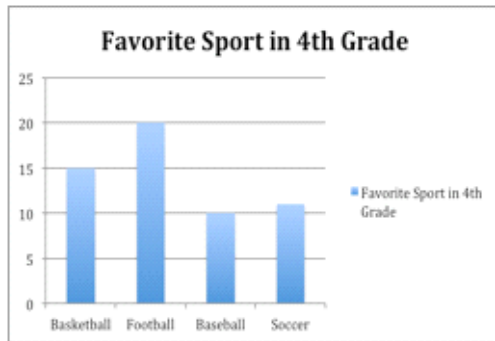
A



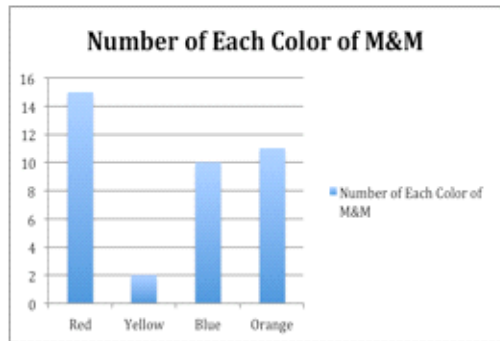
C



B



D

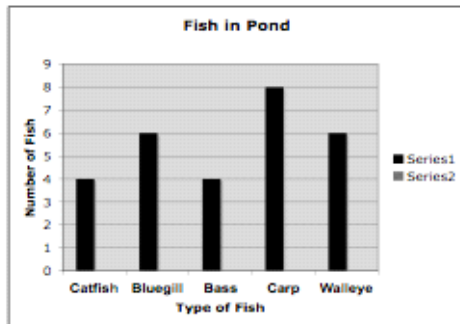


10 The table shown was made by a student observing fish in a pond.

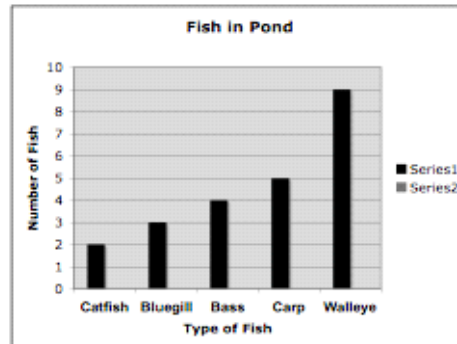
FISH SEEN	
Catfish	7
Bluegill	8
Bass	4
Carp	5
Walleye	6

Which graph correctly shows this data?

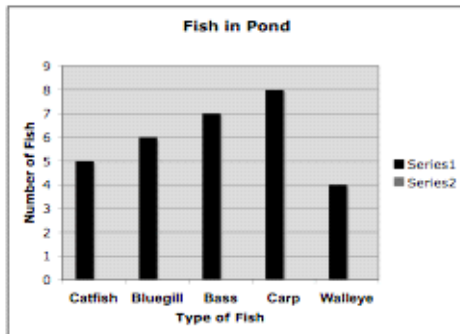
A



C



B



D

