

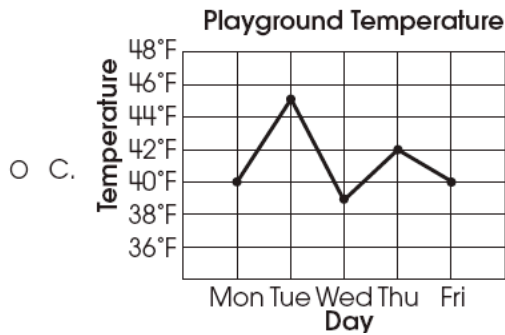
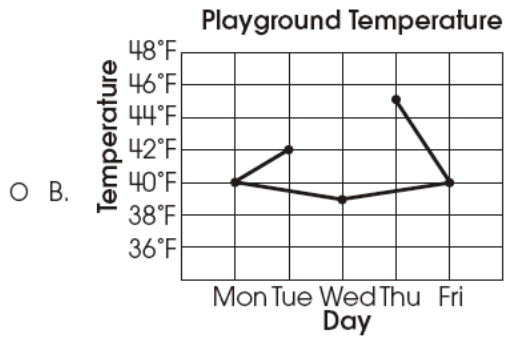
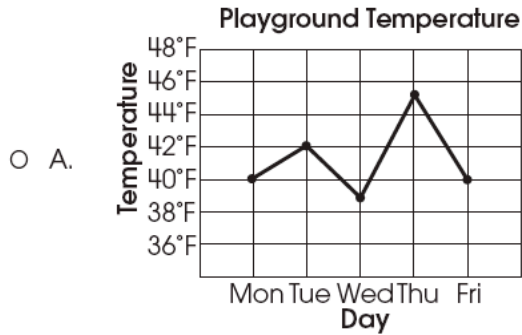
3rd Mathematics Ohio Achievement Test  
Data Analysis and Probability Standard

**Question 21**  
**Benchmark B**  
**March 2008**

Dina checked the temperature on the school playground each morning for five days. She wrote the temperatures in a list.

Day	Temperature
Monday	40°F
Tuesday	45°F
Wednesday	39°F
Thursday	42°F
Friday	40°F

Which line graph shows these data?



**Question 26**  
**Benchmark B**  
**March 2005**

26. How many goldfish are there?

**Aquarium Fish**

Type	Large Fish	Small Fish
Guppies	12	27
Goldfish	12	6

- A. 12
- B. 18
- C. 24

**Question 14**  
**Benchmark B**  
**Fall 2005**

14. Use the data in the chart.

**Playground Activity**

Activity	Number of Children
Slides	HHH HHH I
Swings	HHH HHH HHH III
Climbing Bars	HHH HHH
Ball Games	HHH HHH HHH

How many more children picked the swings than the slides as a playground activity?

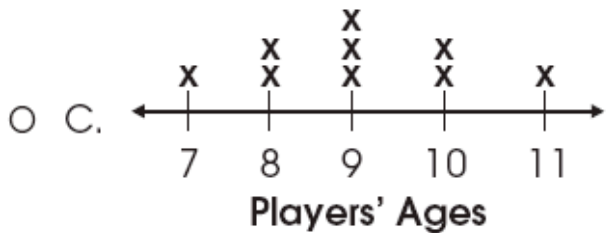
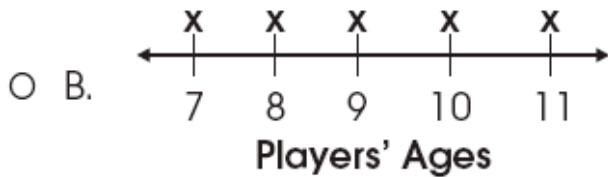
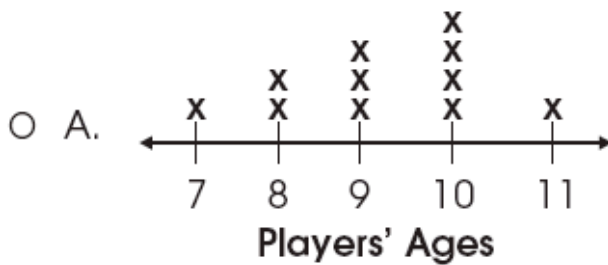
- A. 5
- B. 7
- C. 8

**Question 39**  
**Benchmark B**  
**March 2006**

The list shows the ages of all the players on Miguel's baseball team.

Players' Ages
7, 8, 8, 9, 9, 9, 10, 10, 10, 10, 11

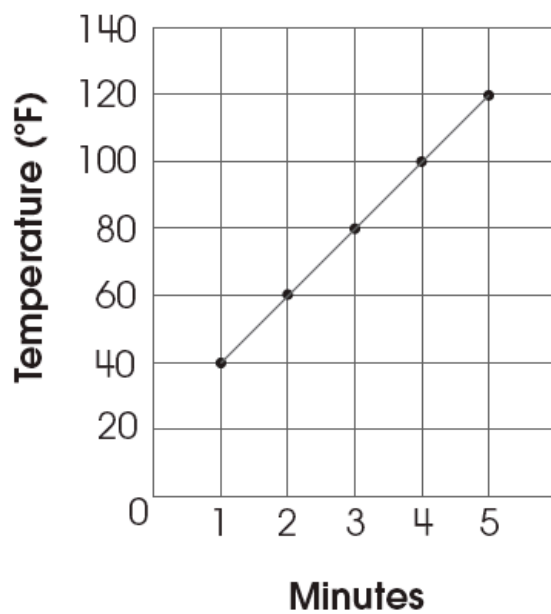
Which line plot shows this information correctly?



**Question 14**  
**Benchmark C**  
**May 2009**

Sam was heating a pot of water. He recorded the temperature of the water every minute in the graph shown.

**Temperature of Sam's Water**



**Continued**

**Question 14**  
**Benchmark C**  
**May 2009 – (CONTINUED)**

Which set of data is shown on the graph?

A.

Minutes	Temperature (°F)
1	10
2	20
3	30
4	40
5	50

B.

Minutes	Temperature (°F)
1	40
2	50
3	60
4	70
5	80


C.

Minutes	Temperature (°F)
1	40
2	60
3	80
4	100
5	120

**Question 4**  
**Benchmark C**  
**Fall 2005**


4. The school store had fancy pencils for sale as shown in this table.

Type of Pencil	Number of Pencils
Striped	12
Foil	16
Neon	10
Dots	20

Make a picture graph showing the number of each type of pencil. Let each  = 4 pencils.

**School Store Pencils**

Striped	
Foil	
Neon	
Dots	

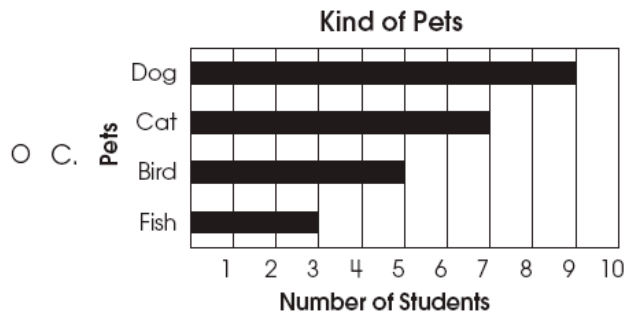
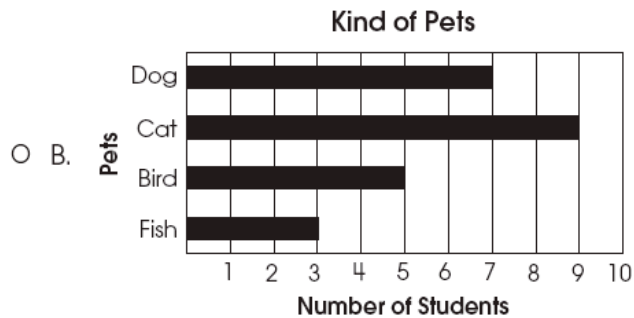
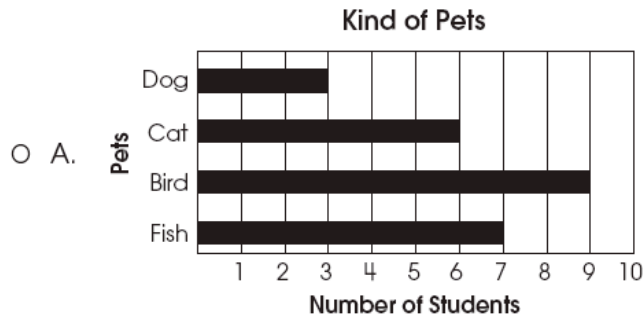
Each  = 4 Pencils

**Question 44**  
**Benchmark C**  
**March 2006**

The chart below shows the kinds of pets owned by students in Mr. Grady's class.

Kind of Pets	
Pets	Number of Students
Dog	
Cat	
Bird	
Fish	




Which graph shows these data?




**Question 18**  
**Benchmark D**  
**May 2009**

18. How many eggs did Tom eat in one week?

**Number of Eggs Eaten in a Week**

Joe	
Ken	
Tom	

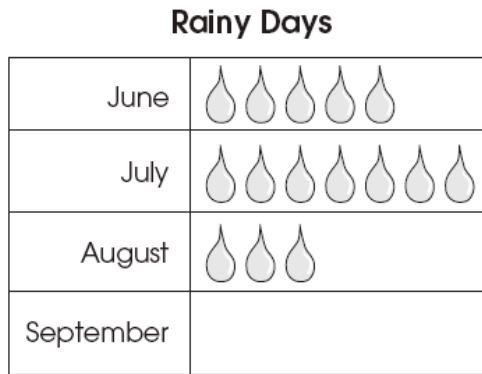
Each  = 2 Eggs


- A. 2
- B. 3
- C. 4

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**Question 5**  
**Benchmark D**  
**March 2008**

5. This pictograph shows the number of rainy days in June, July and August.



Each  = 2 Rainy Days

It rained four days in September. Draw the number of raindrops to complete the pictograph for September.

**Question 30**  
**Benchmark D**  
**March 2005**

30. This table shows the number of students in four classes.

**Students in Classes**

Teacher	Number of Students
Mrs. Gainey	18
Mr. Perez	20
Mrs. Brady	18
Mrs. Hicks	17

**Directions:**

Use the grid on the next page to create a bar graph to show the data in the table.

Be sure to show a scale for your graph.

3rd Mathematics Ohio Achievement Test  
Data Analysis and Probability Standard

**Students in Classes**

<b>Number of Students</b>				

Mrs. Gainey   Mr. Perez   Mrs. Brady   Mrs. Hicks

**Teachers**

Write two different facts about the information in the graph.

a. \_\_\_\_\_

\_\_\_\_\_

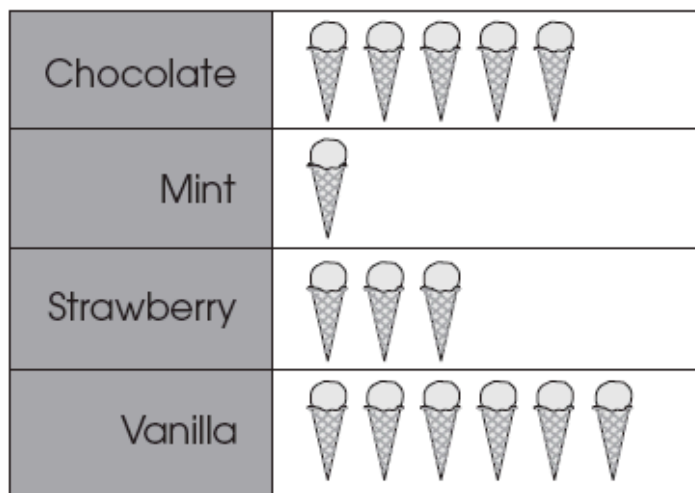
b. \_\_\_\_\_


\_\_\_\_\_

**Question 41**  
**Benchmark D**  
**Spring 2007**

Mrs. Jones' students made a picture graph of their favorite ice cream cones.

**Favorite Ice Cream Cones  
in Mrs. Jones' Class**



Each  = 3 Students

How many students chose vanilla ice cream cones as their favorite?

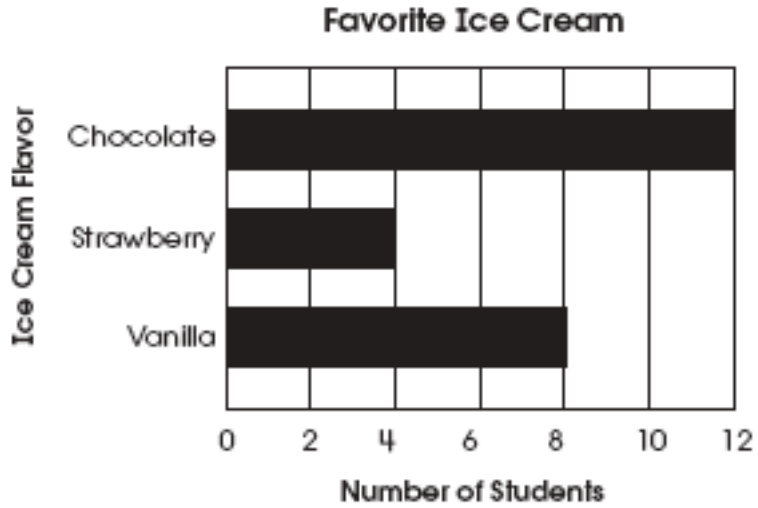
- A. 3
- B. 6
- C. 18

**Question 3**  
**Benchmark E**  
**March 2005**

3. Johnny asked his classmates to name their favorite food. The mode of this data was pizza. Which statement tells what the mode means?
- A. The greatest number of students said pizza.
  - B. The least number of students said pizza.
  - C. None of the students said pizza.

**Question 7**  
**Benchmark E**  
**Fall 2005**

7. The graph shows the favorite flavors of ice cream for Stephanie's class.



Which flavor is the mode of the data?

- A. Chocolate
- B. Strawberry
- C. Vanilla

**Question 24**  
**Benchmark E**  
**March 2006**

Nine students gathered data about their fathers' shoe sizes.

Shoe size: 8, 8, 8, 9, 9, 9, 9, 10, 10

What is the mode for the data they collected?

- A. size 8
- B. size 9
- C. size 10

**Question 29**  
**Benchmark F**  
**May 2009**

29. Megan went to the mall and saw a gumball machine with red, blue, white, and yellow gumballs. She wanted a blue gumball. She continued to buy gumballs until the machine gave her a blue one. The list shows the colors of the gumballs that came from the machine.

white	red	white	white
white	red	yellow	white
red	yellow	white	blue

Create a bar graph to show how many gumballs Megan bought of each color. Make sure you label your graph.

**Continued**

**Question 29**  
**Benchmark F**  
**May 2009 – (Continued)**

Megan bought one more gumball.

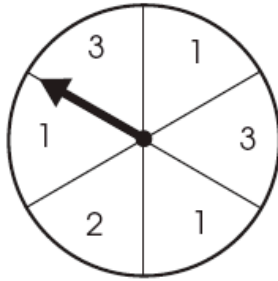
Based on Megan's results and the bar graph you created, what color gumball is Megan most likely to get?

---

Explain why that color is most likely.

**Question 11**  
**Benchmark F**  
**March 2008**

Mike spins a spinner, like the one shown, 20 times and records the results.



Which number is Mike likely to spin the fewest number of times?

- A. 1
- B. 2
- C. 3

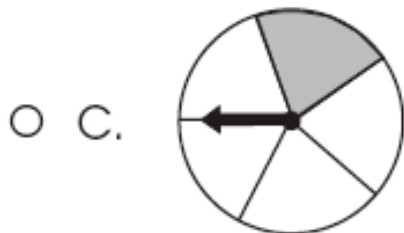
**Question 12**  
**Benchmark F**  
**March 2005**

12. Monica pulls one block from each bag. Which bag is the least likely to have a white block pulled from it?



**Question 21**  
**Benchmark F**  
**March 2006**

Which spinner has the best chance of landing on a shaded space?



**Question 20**  
**Benchmark G**  
**March 2005**

20. José has a red shirt, a blue shirt and a white shirt. He also has an orange hat and a green hat.




Use words or pictures to show all the different ways José can wear one shirt and one hat.

**Question 19**  
**Benchmark G**  
**Fall 2005**

19. Steve has the three groups of objects shown below.



He picks one object from each group. Which is one possible way Steve could have picked the three objects?

- A. 
- B. 
- C. 

**Question 36**  
**Benchmark H**  
**Spring 2007**

36. Morgan spins both spinners shown.



He adds the two numbers on which the spinners land.

How likely is it that Morgan's sum will be an odd number?

- A. possible but not certain
- B. impossible
- C. certain