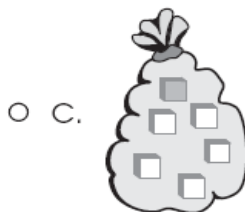
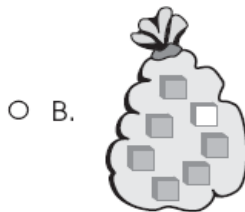


Grade 3 Math Authentic OAT Questions – 2005, 2006 & 2007 Administration;
Practice & Half-Length Test Questions

Data Analysis and Probability Standard

1. 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.
2. Monica pulls one block from each bag. Which bag is the least likely to have a white block pulled from it?



3. 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.

4. How many goldfish are there?

Aquarium Fish

Type	Large Fish	Small Fish
Guppies	12	27
Goldfish	12	6

- ☐ A. 12
- ☐ B. 18
- ☐ C. 24

5. 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.

Students in Classes

Number of Students				
Mrs. Galney Mr. Perez Mrs. Brady Mrs. Hicks				

Teachers

Write two different facts about the information in the graph.

a. _____

b. _____

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



7. Nine students gathered data about their fathers' shoe sizes.

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

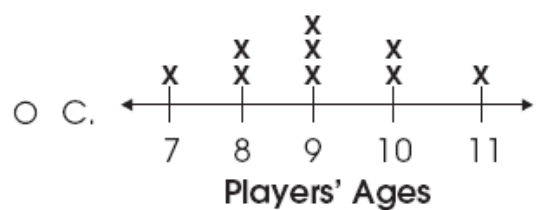
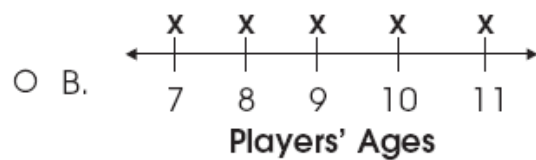
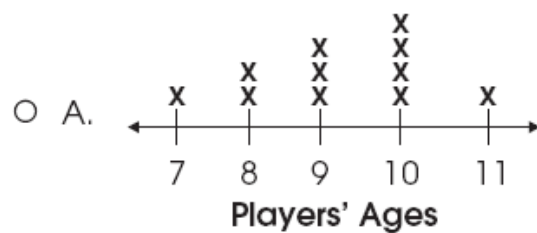
What is the mode for the data they collected?

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

8. 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

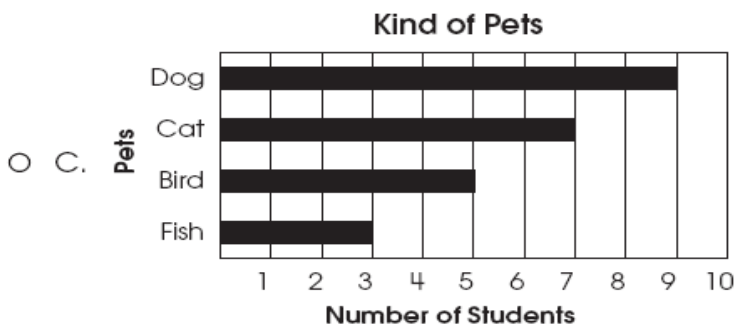
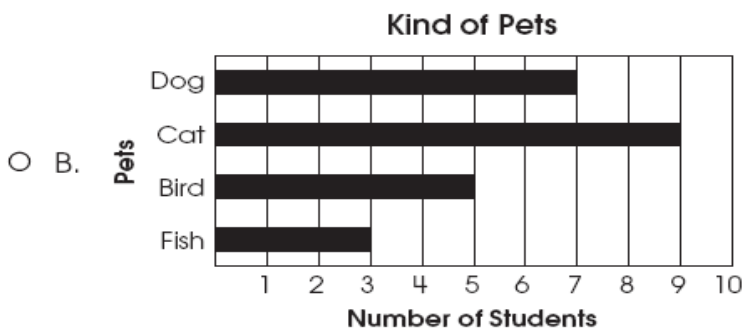
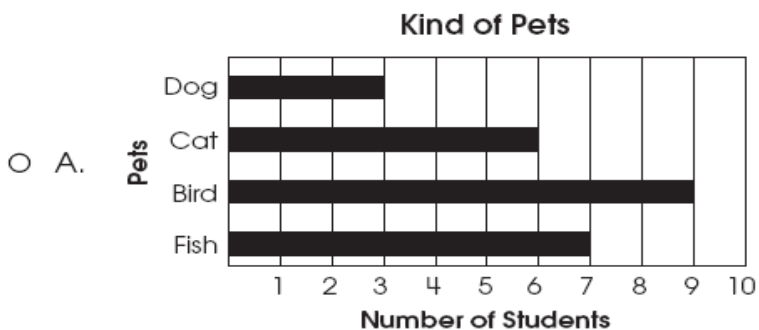
Which line plot shows this information correctly?



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


Kind of Pets	
Pets	Number of Students
Dog	II
Cat	IIII
Bird	
Fish	

Which graph shows these data?




10. 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

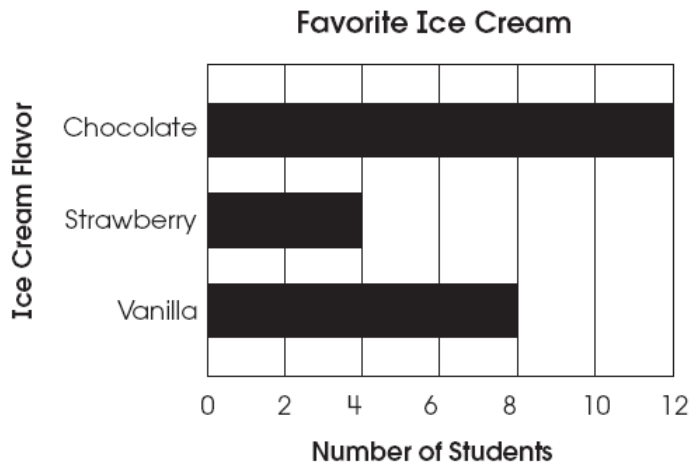
Make a picture graph showing the number of each type of pencil. Let each  = 4 pencils.

School Store Pencils

Striped	
Foil	
Neon	
Dots	

Each  = 4 Pencils

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



Which flavor is the mode of the data?

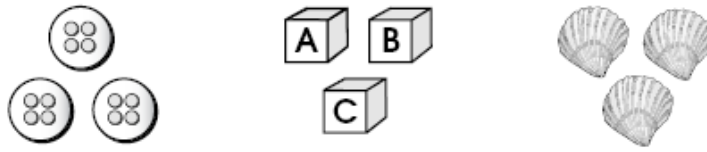
- ☐ A. Chocolate
- ☐ B. Strawberry
- ☐ C. Vanilla
12. Use the data in the chart.

Playground Activity	
Activity	Number of Children
Slides	
Swings	
Climbing Bars	
Ball Games	










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

- ☐ A. 5
- ☐ B. 7
- ☐ C. 8

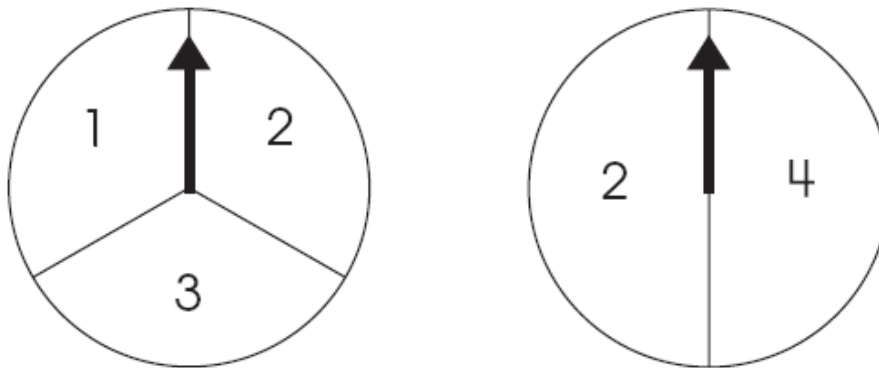
13. Steve has the three groups of objects shown below.



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

- ☐ A.   
- ☐ B.   
- ☐ C.   

14. Morgan spins both spinners shown.



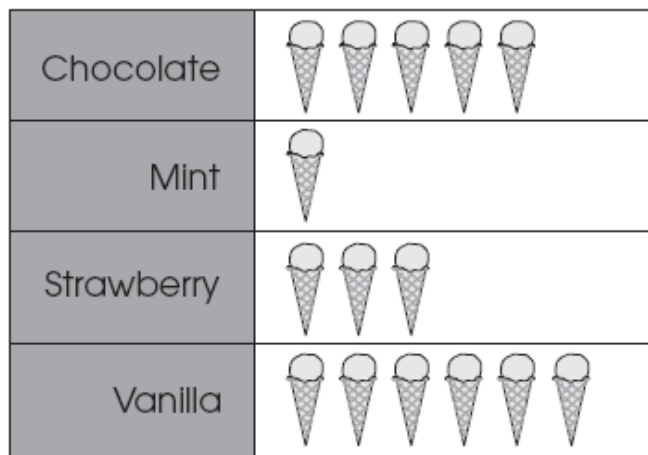
He adds the two numbers on which the spinners land.


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

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

15. 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