

Student Name _____

Ohio Achievement Tests



Do not place student
label in space below.
Place on back cover.

Mathematics Student Test Booklet March 2006

This test was originally administered to students in March 2006.

Not all items from the March 2006 administration will be released in this document. According to Ohio Revised Code (ORC) 3301.07.11: 4(b) . . . not less than forty percent of the questions on the test that are used to compute a student's score shall be a public record. The department (of education) shall determine which questions will be needed for reuse on a future test and those questions shall not be public records and shall be redacted from the test prior to its release as a public record.

This publicly released material is appropriate for use by Ohio teachers in instructional settings. This test is aligned with Ohio's Academic Content Standards for Mathematics.

The Ohio Department of Education does not discriminate on the basis of race, color, national origin, sex, religion, age, or disability in employment or the provision of services.

Directions:

Today you will be taking the Ohio Grade 3 Mathematics Achievement Test. This is a test of how well you understand mathematics. The test consists of questions about numbers, measurement, shapes, graphs, and patterns. Two different types of questions appear on this test: multiple choice and constructed response.

There are several important things to remember:

1. Read each question carefully. Think about what is being asked. If a graph or other diagram goes with the question, look at it carefully to help you answer the question. Then choose or write the answer that you think is best.
2. When you write your answers, write them neatly and clearly in the space provided using a pencil.
3. When you answer a multiple choice question, make sure you fill in the circle next to the answer. Mark only one answer.
4. If you do not know the answer to a question, skip it and go on. If you have time, go back to the questions you skipped and answer them before you hand in your Student Test Booklet.
5. If you finish the test early, you may check over your work. When you are finished and your Student Test Booklet has been collected, you may take out your silent work.

Directions: Carefully read each question. Fill in the circle next to the correct answer.

1. Which unit is best used for measuring the amount of water in a swimming pool?
- A. ounce
 - B. foot
 - C. gallon

Item 2 has not been slated for public release in 2006.

3. About how long is a pencil?
- A. 6 inches
 - B. 6 feet
 - C. 6 yards



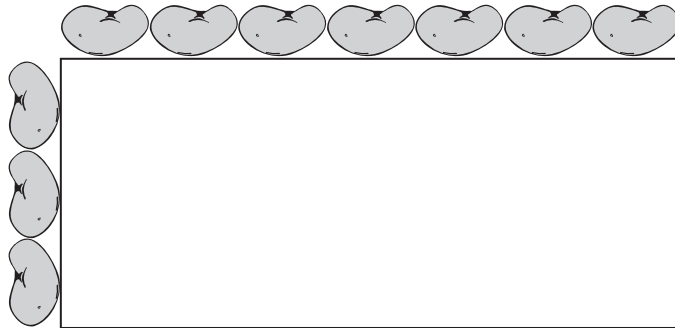
Items 4-7 have not been slated for public release in 2006.



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8. Rachel lines up beans on two sides of a rectangle.



How many beans will Rachel need to go all the way around the rectangle?

- A. 7
- B. 13
- C. 20

Item 9 has not been slated for public release in 2006.



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10. Sam and his mom put pennies into his bank and wrote the amount in this table.

Complete the table by continuing the pattern.

Money Saved

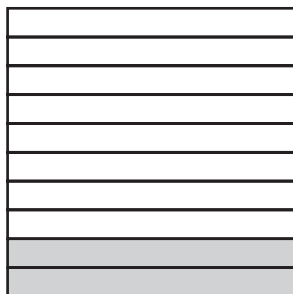
Sam	Mom
5¢	10¢
6¢	12¢
7¢	14¢
8¢	
9¢	
10¢	
11¢	

Describe the rule for this pattern.



On the March 2006 Grade 3 Mathematics Achievement Test, items 11-16 are field-test items, which are not released.

17. Which decimal is shown by the shaded part of the figure?



- A. 0.2
- B. 0.3
- C. 0.8

18. A tomato plant is 7 inches tall. It grows 2 inches each week. How tall will the tomato plant be at the end of 3 weeks?

- A. 9 inches
- B. 10 inches
- C. 13 inches

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Mathematics

Use Pencil Please

Items 19-20 have not been slated for
public release in 2006.



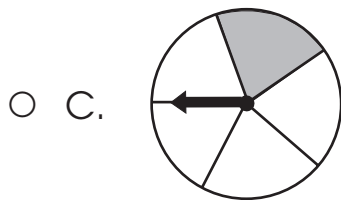
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M

Mathematics

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



Items 22-23 have not been slated for public release in 2006.

24. 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



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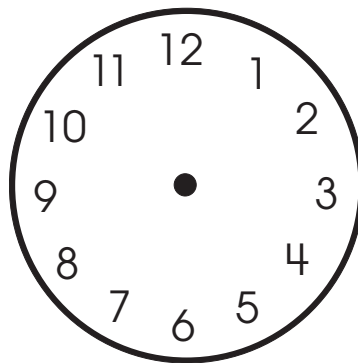
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Mathematics

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25. Melissa left for soccer practice at 3:30 p.m. She returned home two hours later. Write the time she returned home.

Show the return time on the clock.



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Item 26 has not been slated for
public release in 2006.



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27. Look at the picture below.



Which is true?

- A. $\frac{1}{3}$ is less than $\frac{1}{2}$
- B. $\frac{1}{3}$ is greater than $\frac{1}{2}$
- C. $\frac{1}{3}$ is equal to $\frac{1}{2}$

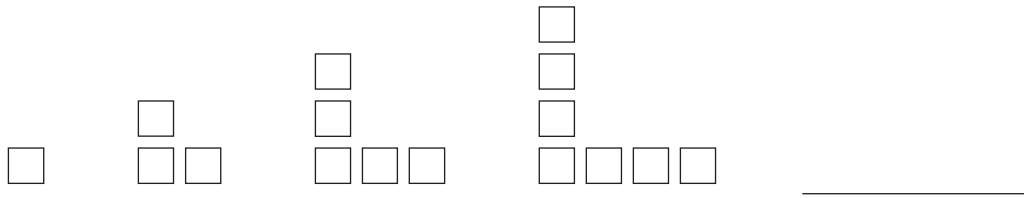
Items 28-30 have not been slated for public release in 2006.



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31. André made this pattern of figures with tiles.



How many tiles would be in the next figure?

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

Items 32-37 have not been slated for public release in 2006.

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38. Is 300 a reasonable estimate for $726 - 192$? _____

Show or explain why or why not.

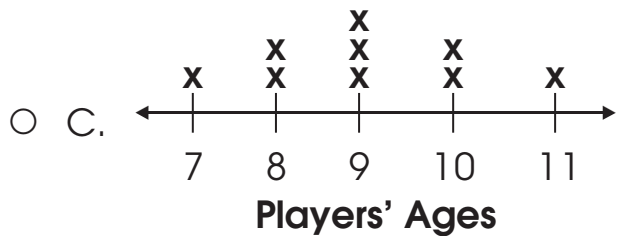
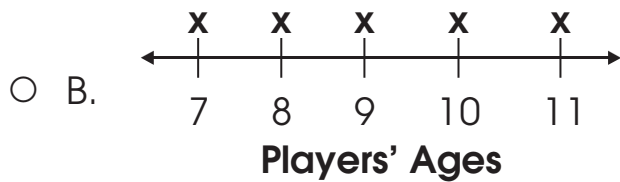
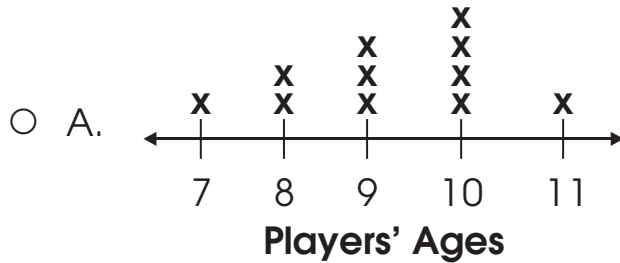


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39. The list shows the ages of all the players on Miguel's baseball team.

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

Which line plot shows this information correctly?



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40. Which number makes this statement true?

$$\triangle ? - 8 = 13$$

- A. 5
- B. 21
- C. 84

41. Which is another way of writing $6 + 6 + 6 + 6 + 6$?

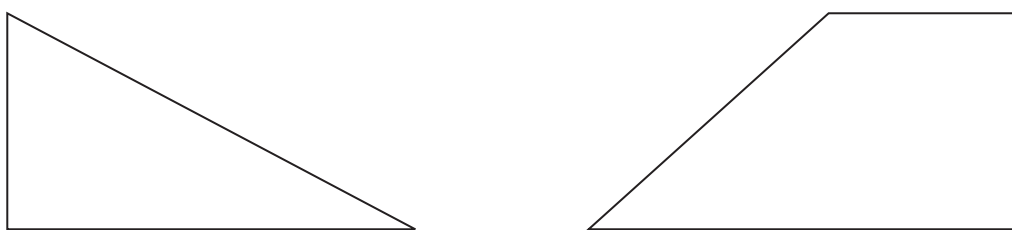
- A. 5×6
- B. 5×5
- C. 6×4



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43. In which way are these two shapes alike?



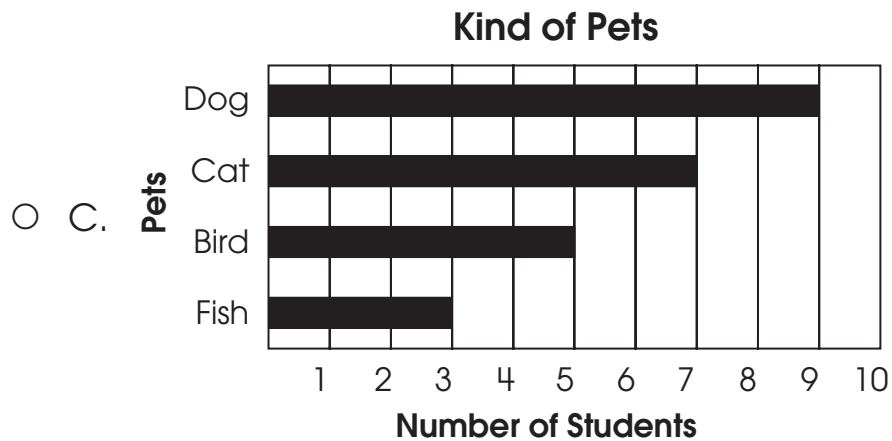
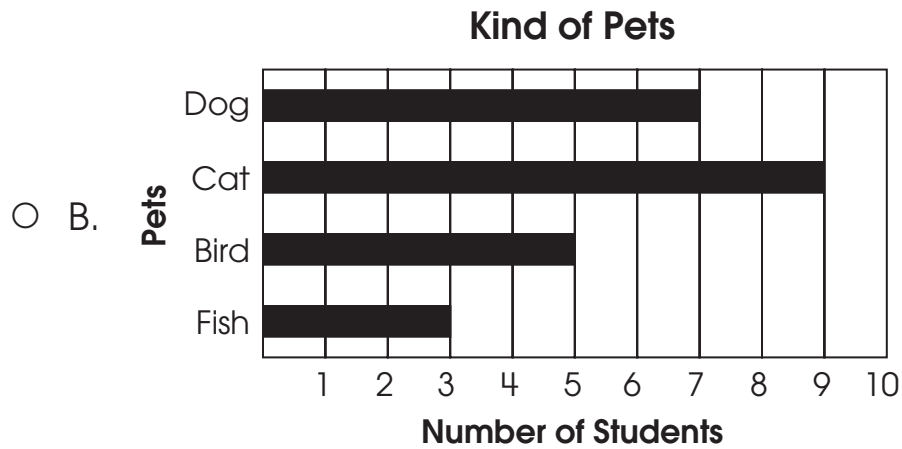
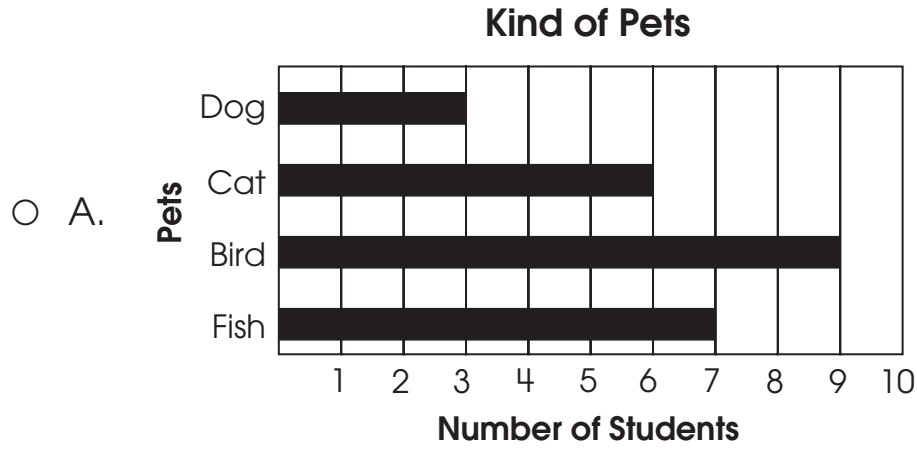
- A. Both seem to have at least one right angle.
- B. Both have all sides of equal length.
- C. Both have four vertices.

44. 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	
Bird	
Fish	

Which graph shows these data?



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Mathematics

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45. Carole has 7 marbles. Ezra gives her 3 marbles. Tonya gave Carole 2 more marbles. The total number of marbles that Carole has can be shown by $(7 + 3) + 2$.

This is the same as:

- A. $7 + (3 + 2)$
 - B. $(7 + 3) + (7 + 2)$
 - C. $(7 + 3) + (3 + 2)$
46. Monica had 18 books. She shared some books with a friend and had 12 books left.

Which number sentence could be used to find the number of books Monica shared?

- A. $18 - n = 12$
- B. $12 - 18 = n$
- C. $18 + 12 = n$

