



# Georgia CRCT-M

## Sample Items

# Grade 5

## MATHEMATICS



# **Original CRCT**

## **Grade 5 Items** **MATHEMATICS**

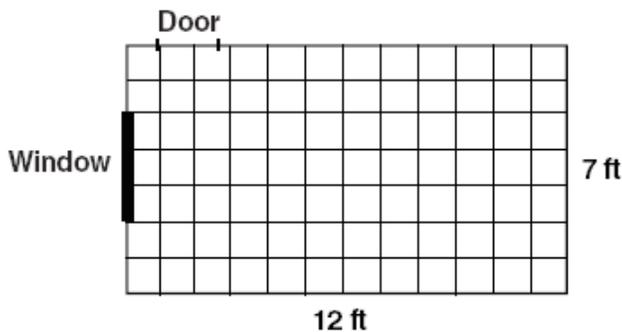
# MATHEMATICS

1. An animal shelter has 6 volunteers who help with the animals. There are 68 dogs and 90 cats. If the shelter has room for a total of 184 animals, what does  $x$  represent in

$$x = 184 - (68 + 90) ?$$

- A. How many animals can the shelter hold?
- \* B. How many more animals could the shelter care for?
- C. How many animals does each volunteer have to care for?
- D. How many more cats than dogs does the shelter have?

2. Carpet is being put down in Kate's bedroom.



How much carpet will be needed to cover the floor of the room?

- A. 19 square feet
- B. 38 square feet
- C. 76 square feet
- \* D. 84 square feet

3. The expression shows how much money the cafeteria will earn each day for serving  $a$  number of adult lunches and  $s$  number of student lunches.

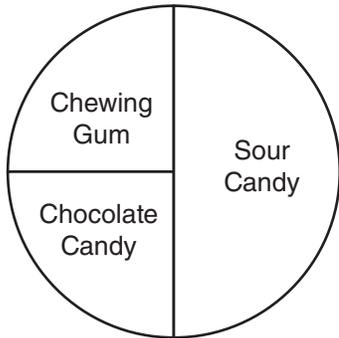
$$3a + 1.5s$$

How much will the cafeteria earn if it serves 20 adult lunches and 100 student lunches?

- A. \$15
- B. \$60
- C. \$120
- \* D. \$210
4. What is  $\frac{1}{10}$  as a decimal?

- A. 0.01
- \* B. 0.10
- C. 0.001
- D. 1.0

5. **Types of Candy Students Like Best**



Which statement about the data in the circle graph is TRUE?

- A. Fewer students like chocolate candy than chewing gum.
- B. More students like chewing gum than sour candy.
- C. Fewer students like sour candy than chocolate candy.
- \* D. More students like sour candy than chewing gum.



# Grade 5 Items

## MATHEMATICS

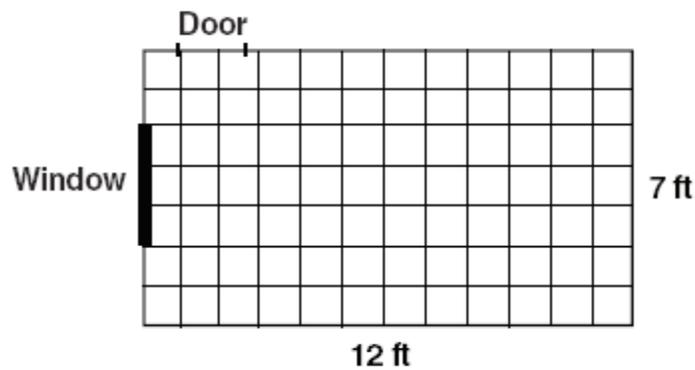
# MATHEMATICS

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1. An animal shelter has 68 dogs and  $n$  cats. Which expression shows how many animals are at the shelter?

- A.  $68 - n$
- B.  $68 + n$
- C.  $68 \times n$
- D.  $68 \div n$

2. Carpet is being put down in Kate's bedroom.



How much carpet will be needed to cover the floor of the room?

- A. 19 square feet
- B. 38 square feet
- C. 76 square feet
- D. 84 square feet

**Helpful Hint**

$$A = l \times w$$
$$\text{Area} = \text{length} \times \text{width}$$

# MATHEMATICS

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3. The expression shows how much money the cafeteria will earn each day for serving  $a$  number of adult lunches and  $s$  number of student lunches.

$$3a + 2s$$

How much will the cafeteria earn if it serves **20 adult lunches and 100 student lunches?**

- A. \$60
- B. \$200
- C. \$120
- D. \$260

**Helpful Hint**

\$3 for an adult lunch  
\$2 for a student lunch

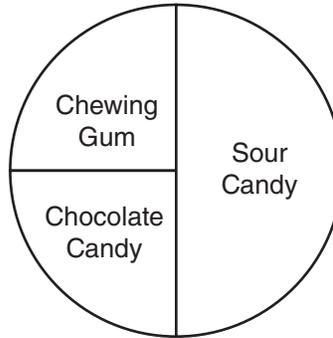
4. What is  $\frac{1}{10}$  as a decimal?
- A. 0.01
  - B. 0.10
  - C. 0.001
  - D. 1.0

# MATHEMATICS

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5. Which statement about the data in the circle graph is TRUE?

## Types of Candy Students Like Best



- A. Fewer students like chocolate candy than chewing gum.
- B. More students like chewing gum than sour candy.
- C. Fewer students like sour candy than chocolate candy.
- D. More students like sour candy than chewing gum.

Item Sequence	Georgia Performance Standard	KEY
1	<p><b>Domain: Algebra</b></p> <p><b>M5A1.</b> Students will represent and interpret the relationships between quantities algebraically.</p> <p>a. Use variables, such as <math>n</math> or <math>x</math>, for unknown quantities in algebraic expressions.</p>	B
2	<p><b>Domain: Measurement</b></p> <p><b>M5M1.</b> Students will extend their understanding of area of geometric plane figures.</p> <p>d. Find the areas of triangles and parallelograms using formulae.</p>	D
3	<p><b>Domain: Algebra</b></p> <p><b>M5A1.</b> Students will represent and interpret the relationships between quantities algebraically.</p> <p>b. Investigate simple algebraic expressions by substituting numbers for the unknown.</p>	D
4	<p><b>Domain: Number and Operations</b></p> <p><b>M5N4.</b> Students will continue to develop their understanding of the meaning of common fractions and compute with them.</p> <p>h. Use fractions (proper and improper) and decimals interchangeably.</p>	B
5	<p><b>Domain: Data Analysis and Probability</b></p> <p><b>M5D1.</b> Students will analyze graphs.</p> <p>a. Analyze data presented in a graph.</p>	D

Item Sequence	Commentary
All	<ul style="list-style-type: none"><li>• The font size was increased on all items.</li><li>• Geometric figures and other graphic images were enlarged.</li><li>• The line spacing between items was increased.</li></ul>
1	<ul style="list-style-type: none"><li>• The item has been changed to have the student focus on only one question about the shelter and then select the appropriate algebraic expression that would solve the question.</li><li>• Some extraneous information has been eliminated from the word problem.</li></ul>
2	A formula has been provided in the hint box.
3	No changes have been made.
4	No changes have been made.
5	No changes have been made.