

2006

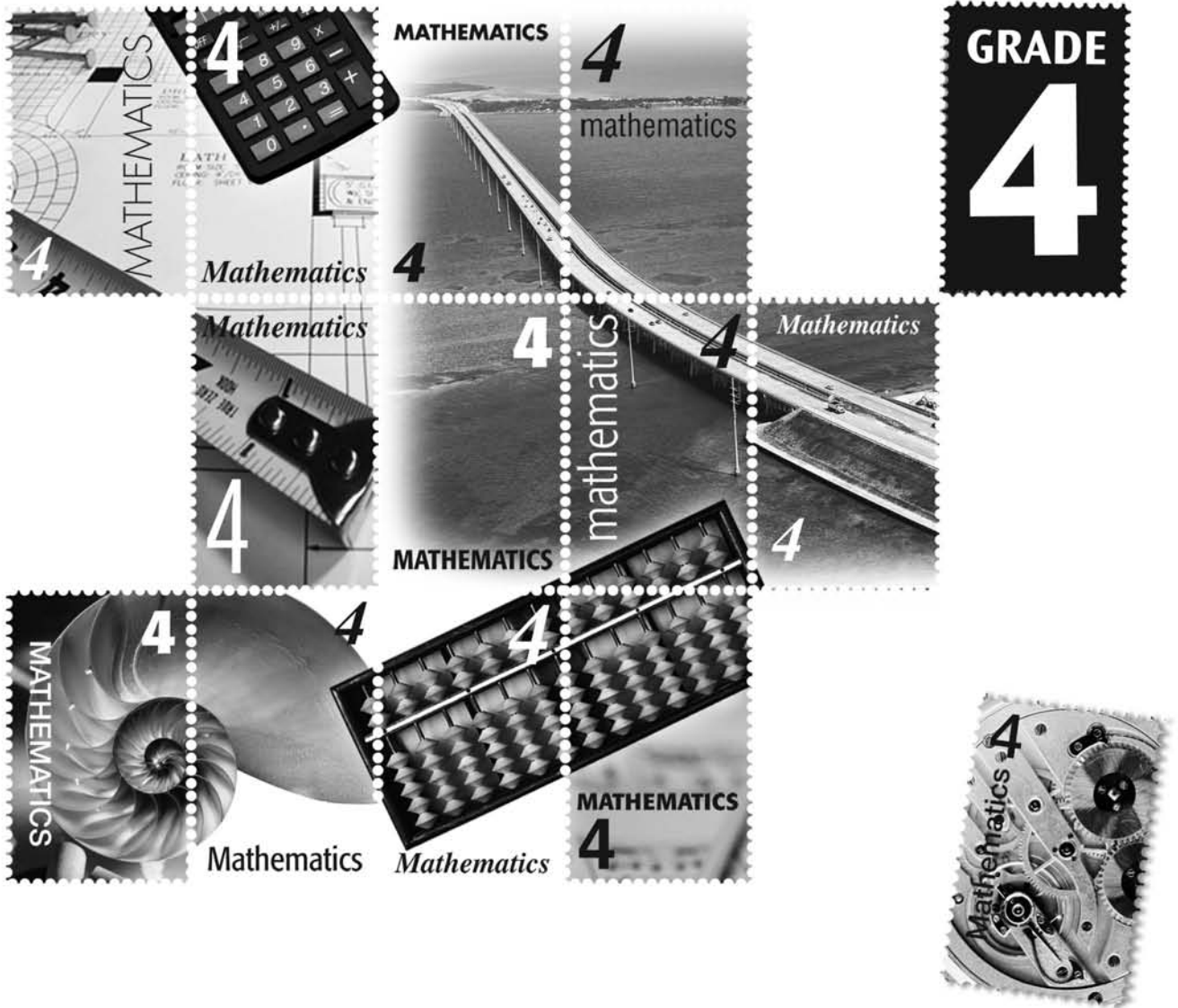
FCAT

Florida Comprehensive Assessment Test

Student Name _____

MATHEMATICS

SAMPLE TEST BOOK



GRADE
4

MATHEMATICS

FCAT Sample Test Materials

These sample test materials are designed to help you prepare to answer FCAT questions. These materials introduce you to the kinds of questions you will answer when you take FCAT and include hints for responding to FCAT questions. The FCAT Mathematics sample test materials for Grade 4 are composed of the books described below:

- ☒ **Sample Test and Answer Book**
Includes a mathematics sample test, a sample answer sheet, and instructions for completing the sample test. (Copies are available for all students in the tested grade.)
 - ☐ **Sample Answer Key**
Includes answers and explanations for the questions in the sample test. (Copies are available for classroom teachers only.)
- ☒ = This book

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FCAT Mathematics Sample Test Book



Taking the FCAT Mathematics Sample Test Page 2

This section introduces the FCAT Mathematics Sample Test. It includes hints for answering FCAT Mathematics questions and an estimate of the time required to complete the sample test.

FCAT Mathematics Sample Test Page 3

The Mathematics Sample Test consists of 15 practice questions that are similar to questions on the FCAT. It includes a perforated (tear-out) Mathematics Sample Answer Sheet found on page 4.

Taking the FCAT Mathematics Sample Test

Hints for Taking the FCAT Mathematics Test

Here are some hints to help you do your best when you take the FCAT Mathematics test. Keep these hints in mind when you answer the sample questions.

- ✓ Read each problem carefully and think about ways to solve the problem before you try to answer the question.
- ✓ Answer the questions you are sure about first. If a question seems too difficult, skip it and go back to it later.
- ✓ Be sure to fill in the answer bubbles correctly. Do not make any stray marks around answer spaces.
- ✓ Think positively. Some problems may seem hard to you, but you may be able to figure out what to do if you read each question carefully.
- ✓ When you have finished each problem, reread it to make sure your answer is reasonable.
- ✓ Relax. Some people get nervous about tests. It's natural. Just do your best.

Directions for Taking the Mathematics Sample Test

The questions in this Sample Test are called multiple-choice questions. A **multiple-choice question is followed by several answer choices**. Read all the answer choices under each question and decide which answer is correct. On the answer sheet, fill in the bubble for the answer choice you think is correct for each multiple-choice question.

This Sample Test contains 15 questions. It should take about 15 to 20 minutes to answer all the questions. You will mark your answers on the Mathematics Sample Answer Sheet found on page 4 of this book. If you don't know how to work a problem, just ask your teacher to explain it to you. Your teacher has the answers to the sample questions.

Calculators and rulers are NOT to be used on the Mathematics Sample Test.

FCAT Mathematics Sample Test



The Mathematics Sample Answer Sheet is on the back of this page.

Carefully tear along the dotted line to remove the Sample Answer Sheet from this book.

After you have removed the Sample Answer Sheet, begin the Sample Test. You may write in the test book, but be sure to mark your answers on the Sample Answer Sheet.

Name _____

Answer all the questions that appear in the Mathematics Sample Test on this Sample Answer Sheet.

1 (A) (B) (C) (D)

9 (A) (B) (C) (D)

2 (F) (G) (H) (I)

10 (F) (G) (H) (I)

3 (A) (B) (C) (D)

11 (A) (B) (C) (D)

4 (F) (G) (H) (I)

12 (F) (G) (H) (I)

5 (A) (B) (C) (D)

13 (A) (B) (C) (D)

6 (F) (G) (H) (I)

14 (F) (G) (H) (I)

7 (A) (B) (C) (D)

15 (A) (B) (C) (D)

8 (F) (G) (H) (I)

Fold and Tear Carefully Along Dotted Line.

- 1 In 1971, astronaut Alfred Worden stayed in the *U.S. Apollo* lunar spacecraft while his crew explored the surface of the moon 2235 miles away.

What is the value of the digit 3 in 2235?

- A. 3
- B. 30
- C. 300
- D. 3,000

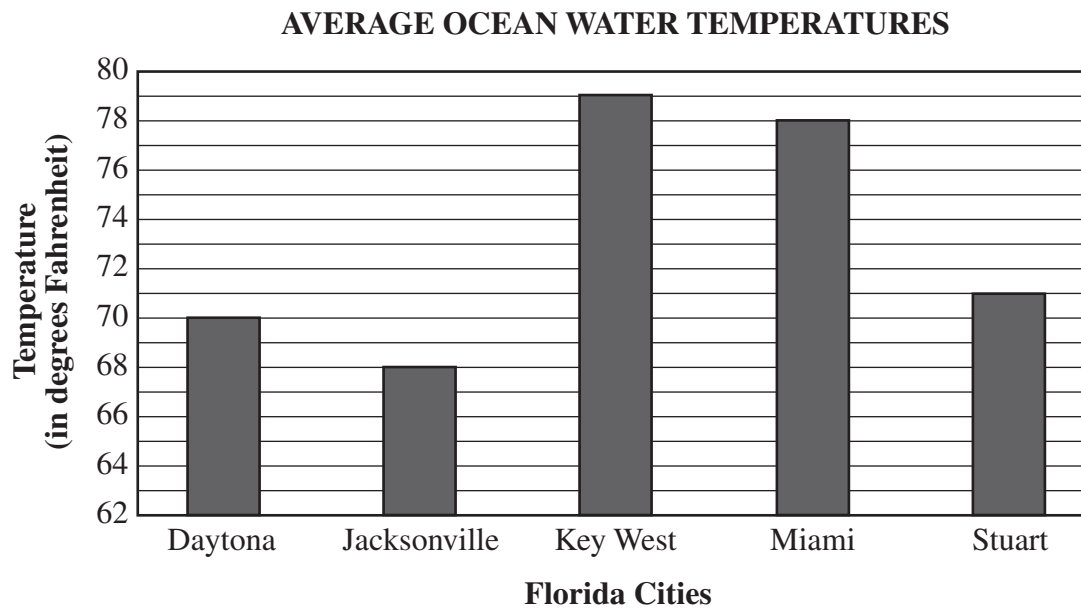
- 2 In late June, 3 alligators each laid 30 eggs. All but 7 eggs hatched.

$$3 \square 30 \square 7$$

Which symbols should be used in the boxes above to determine the number of eggs that hatched?

- F. + and –
- G. $\times$ and +
- H. $\times$ and –
- I. + and $\div$

- 3 The bar graph below shows the average ocean water temperatures near five Florida cities during April.



What is the **range** of these temperatures?

- A. 8°F
- B. 9°F
- C. 10°F
- D. 11°F

- 4 A tile store sells hand-painted tiles from the Netherlands. Margo is using these tiles to make a pattern in her kitchen. The tiles repeat after every 4th tile.



According to her pattern, which tile will be the 11th tile?

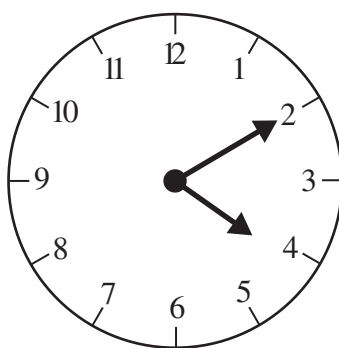


- 5 Jonathan is 4 feet 7 inches tall. How many inches tall is he?

1 foot = 12 inches

- A. 28 inches
- B. 47 inches
- C. 55 inches
- D. 60 inches

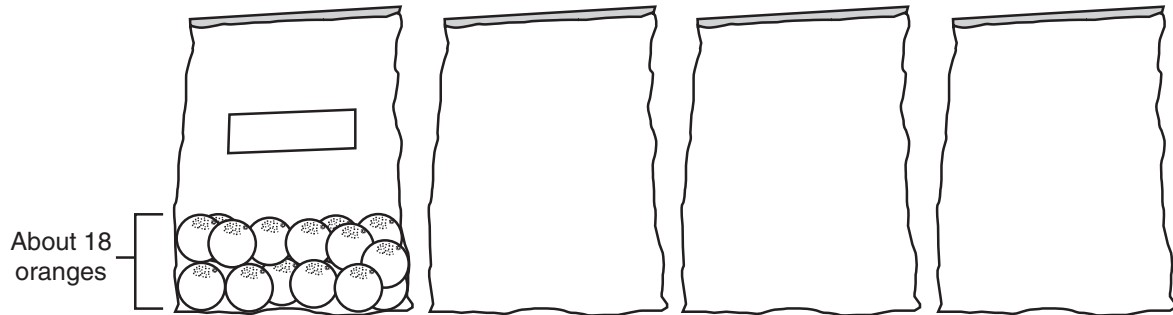
- 6 Kenny practiced the piano for 30 minutes. This clock shows the time he finished.

TIME FINISHED

What time was it when Kenny started practicing the piano?

- F. 3:30
- G. 3:40
- H. 4:30
- I. 4:40

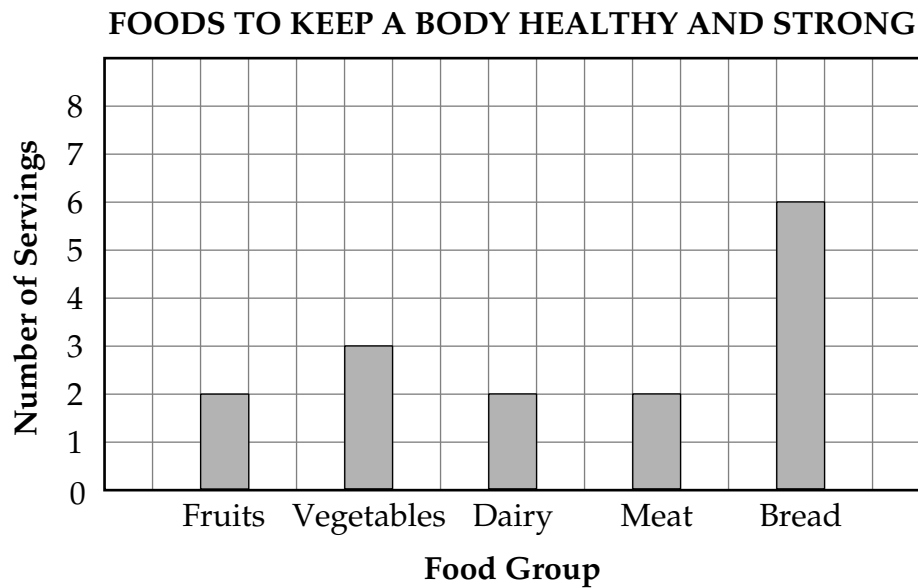
- 7 In 1 of the bags below, there are about 18 oranges.



About how many oranges would it take to fill **all 4 bags** to the top?

- A. 60
- B. 120
- C. 210
- D. 400

- 8 The bar graph below shows the kinds of foods and the number of servings a student should eat each day to keep a body healthy and strong.



How many **more** servings of bread than servings of fruits and vegetables combined should a student eat each day?

- F. 4
- G. 3
- H. 2
- I. 1

- 9 The total amount Donna owes for lunch is shown on the bill below.

SANDWICH SHACK	
1546 4th Street	

Sandwich Combo	\$13.62
TOTAL	\$13.62
2/13/05 4:40 PM	
THANK YOU	

Donna used \$20.00 to pay the bill. How much change should she receive?

- A. \$6.38
- B. \$6.48
- C. \$7.38
- D. \$7.48

- 10 Mona's family planted a rectangular garden with vegetable plants. The picture shows the amount of space they used for each kind of plant.

VEGETABLE GARDEN

Corn	Corn	Corn	Corn	Corn
Corn	Corn	Corn	Corn	Corn
Beans	Beans	Beans	Beans	Beans
Tomatoes	Tomatoes	Squash	Squash	Lettuce

What fraction of the garden was planted with beans?

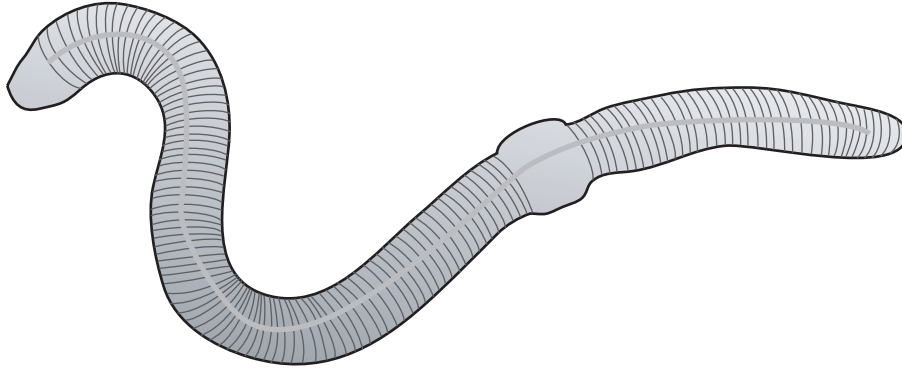
F. $\frac{1}{2}$

G. $\frac{1}{3}$

H. $\frac{1}{4}$

I. $\frac{1}{5}$

- 11 What unit of measure should be used to find the mass of this worm?



- A. centimeter
- B. gram
- C. kilometer
- D. liter

- 12** During a 5-day science experiment, Gerald poured 45 milliliters of water into a sugar solution each day.

Which equation could be used to find w , the total number of milliliters of water Gerald poured into the sugar solution during the 5-day experiment?

F. $45 \times 5 = w$

G. $w + 5 = 45$

H. $45 \div 5 = w$

I. $w - 5 = 45$

- 13** Sierra is designing a poster. She may choose 2 of the following colors.

RED YELLOW BLACK GREEN

How many different 2-color combinations can be made from the colors listed?

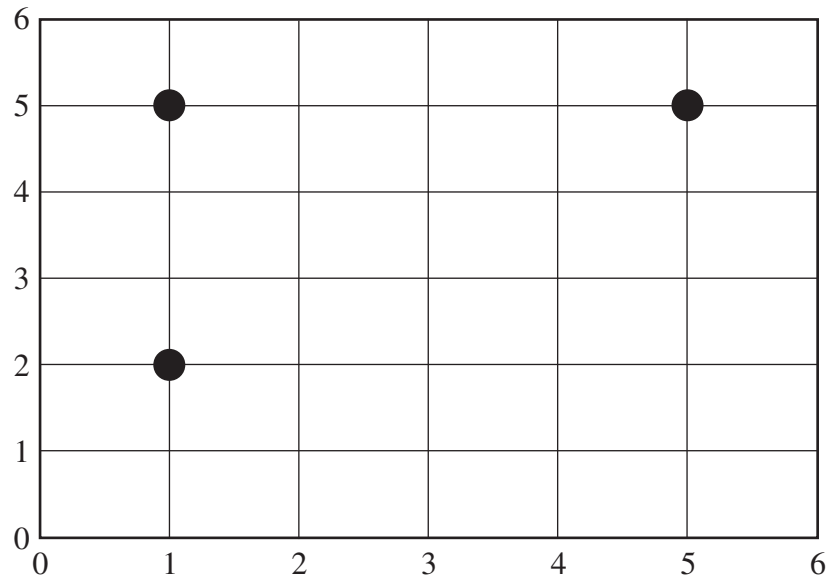
A. 8

B. 6

C. 4

D. 3

- 14 Ashley plotted 3 points on a grid, as shown below. These points are 3 of the 4 vertices needed to make a rectangle.



Which ordered pair best represents the location of the fourth vertex needed to complete the rectangle?

- F. (2, 5)
- G. (3, 5)
- H. (5, 2)
- I. (5, 3)

- 15 Smileys are typed letters and symbols that look like faces when turned sideways. They are typed in messages and e-mails on the computer.

SMILEYS

Name	Symbol
Happy	: -)
Sad	: - (
Laughing	: - D

Which drawing below shows the **sad** smiley on the chart turned clockwise 90 degrees?

: -)

A.

: - (

B.

) - :

C.

: -)

D.



This is the end of the Mathematics Sample Test.
Until time is called, go back and check your work or answer questions you did not complete. When you have finished, close your Sample Test Book.

Notes



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