

2005

FCAT

Florida Comprehensive Assessment Test

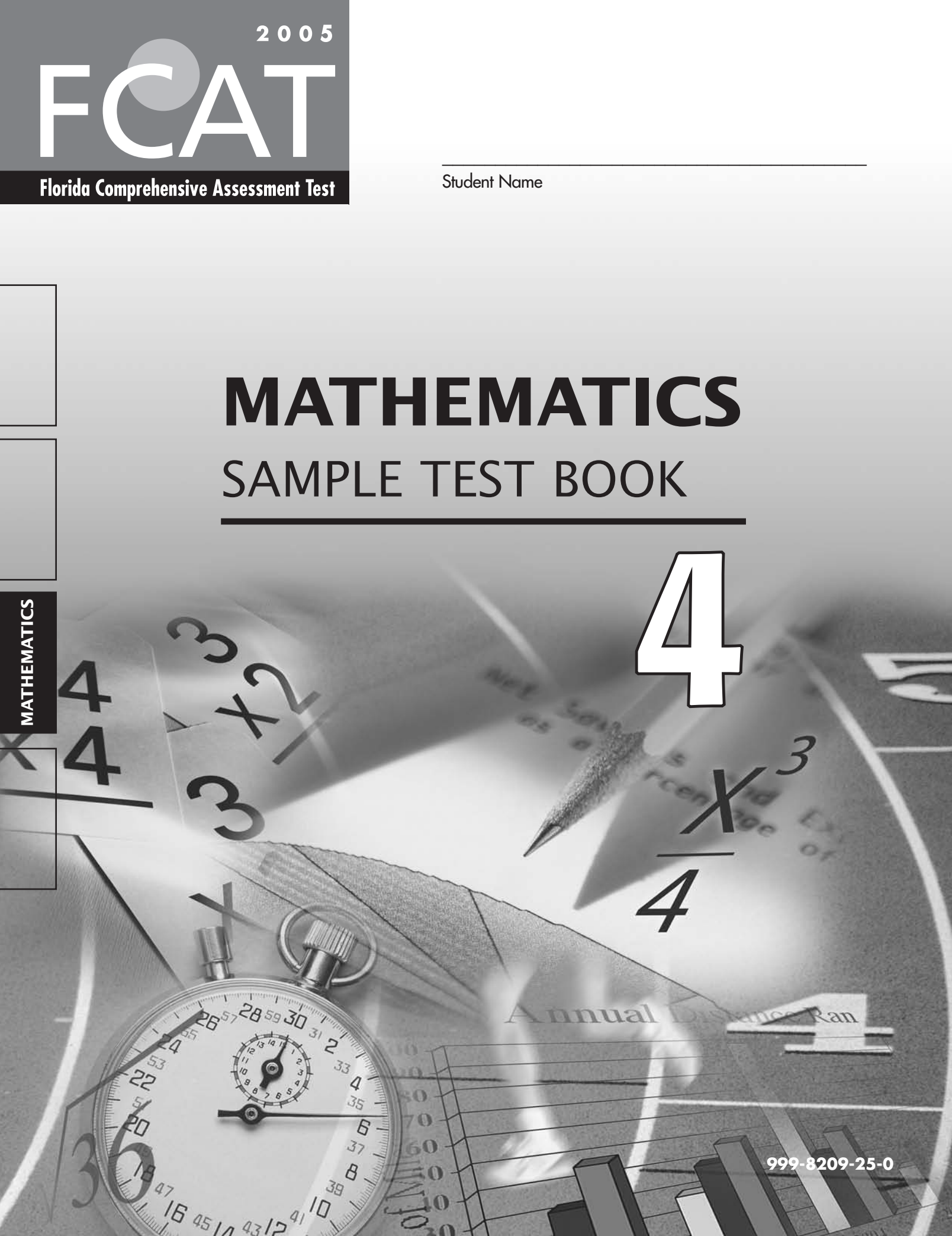
Student Name _____

MATHEMATICS

SAMPLE TEST BOOK

4

MATHEMATICS



999-8209-25-0

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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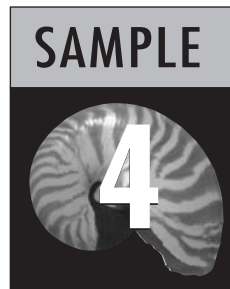
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FCAT Mathematics Sample Test Book



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.

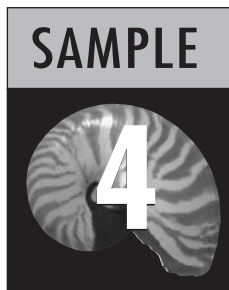
- ✓ Read each problem carefully and think about ways to solve the problem before you try to answer the question.
- ✓ Answer the questions you are sure about first. If a question seems too difficult, skip it and go back to it later.
- ✓ Be sure to fill in the answer bubbles correctly. Do not make any 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

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.

Fold and Tear Carefully Along Dotted Line

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)

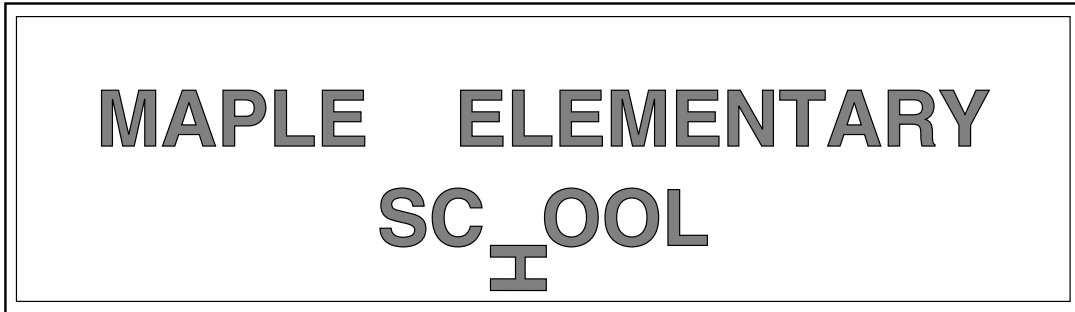
7 (A) (B) (C) (D)

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

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

Fold and Tear Carefully Along Dotted Line

- 1 When Keith got to school, he noticed the sign in front of the school looked like this.



Which of the following best describes, in geometric terms, what happened to the “H”?

- A. a single flip
- B. a single slide
- C. a single 90° turn (rotation)
- D. a single 180° turn (rotation)

- 2 Sarah is growing a bean plant for a science project.



Which of the following units would be the most appropriate for measuring the height of the bean plant?

- F. liter
- G. meter
- H. kilogram
- I. centimeter

- 3 In science class, Sam recorded the following amounts of rainfall for one 4-day period.

AMOUNT OF RAINFALL RECORDED

Day of Week	Amount of Rainfall
Monday	0.12 inches
Tuesday	0.02 inches
Wednesday	0.21 inches
Thursday	0.11 inches

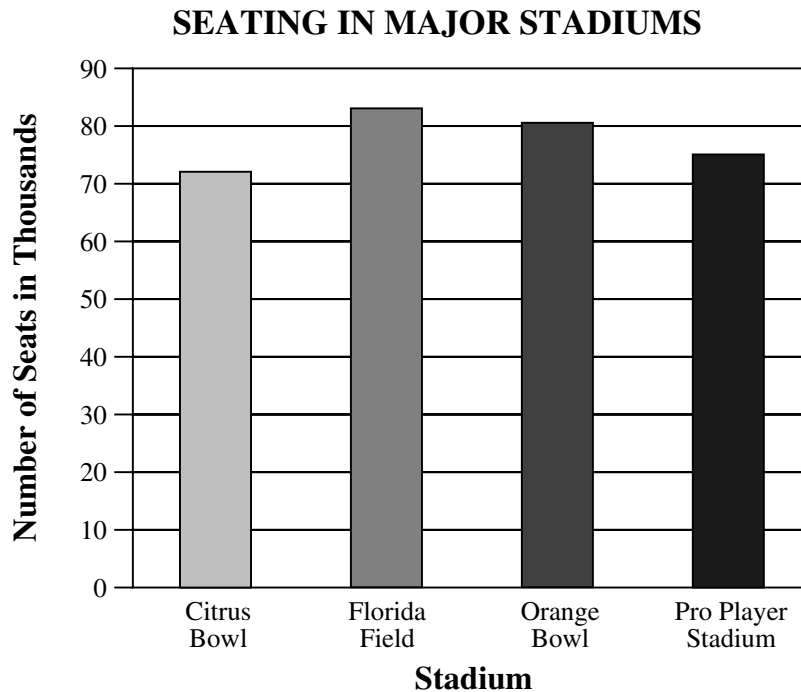
On what day of the week did Sam record the **least** amount of rainfall?

- A. Monday
 - B. Tuesday
 - C. Wednesday
 - D. Thursday
- 4 The average temperature during January in Pensacola, Florida, is 61° Fahrenheit. The average temperature during January in Miami, Florida, is 76° Fahrenheit. Let d represent the difference between the average temperatures in Pensacola and Miami during January.

Which of the following expresses the difference between the average temperatures in Pensacola and Miami during January?

- E. $d = 76 + 61$
- G. $d = 76 - 61$
- H. $d = 76 \times 61$
- I. $d = 76 \div 61$

- 5 The bar graph shows the number of seats for 4 major stadiums in Florida.

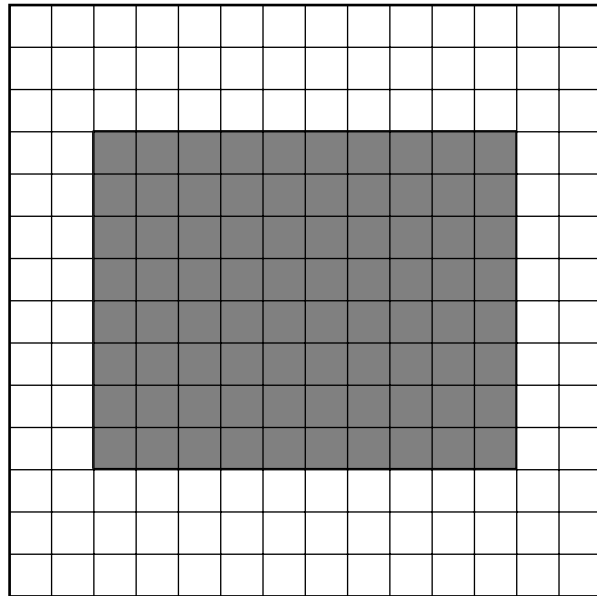


Which stadium holds the **second greatest** number of people?

- A. Citrus Bowl
- B. Florida Field
- C. Orange Bowl
- D. Pro Player Stadium

- 6 Javier is getting new carpet for his bedroom. The shaded area in the picture below shows the size and shape of his bedroom.

JAVIER'S BEDROOM



= 1 square foot

What is the area of Javier's bedroom?

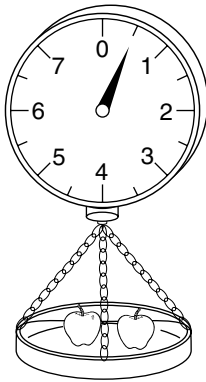
Area of a rectangle = length \times width

- E. 100 square feet
- G. 80 square feet
- H. 72 square feet
- I. 64 square feet

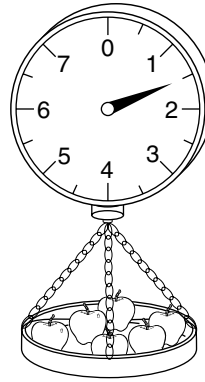
- 7 Sean's mother sent him to the grocery store to buy 2 pounds of apples.

Which of the following scales shows 2 pounds of apples?

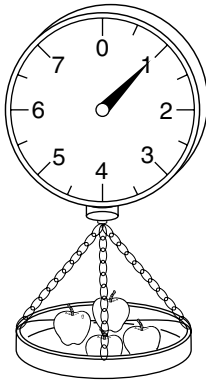
A.



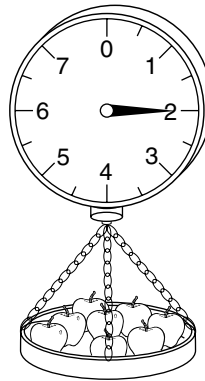
C.



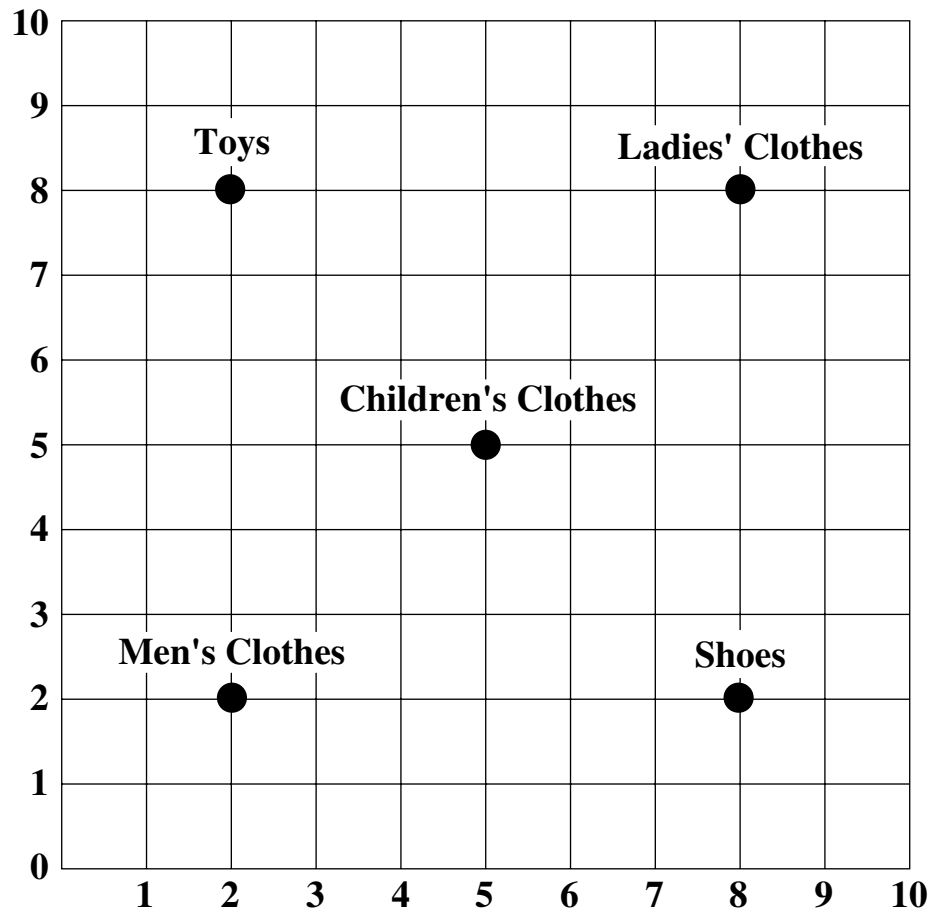
B.



D.



- 8 David and his older sister, Claire, went to a store with their mother. She told them to meet her in the shoe department in fifteen minutes.



Which ordered pair on the grid represents the shoe department?

- F. (2, 8)
- G. (3, 9)
- H. (8, 2)
- I. (9, 3)

- 9 Pat is making a key ring by stringing beads on a leather strip. He may choose one of the following 2 colors for the leather strip.

BLACK

WHITE

Then he may choose one of the following 3 colors for the beads.

RED

BLUE

YELLOW

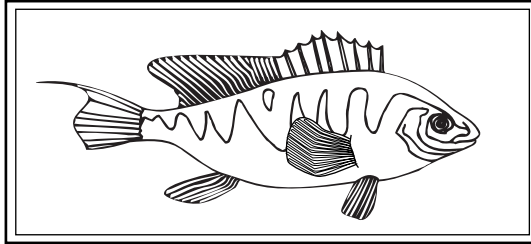
How many different color combinations can Pat make?

- 10 Mr. Nacarrato is lining up his students in this order:
girl, girl, boy, boy girl, girl, boy, boy girl, girl, boy, ? ?

If he continues the same pattern, what are the next two students in line?

- F. boy, boy
- G. boy, girl
- H. girl, boy
- I. girl, girl

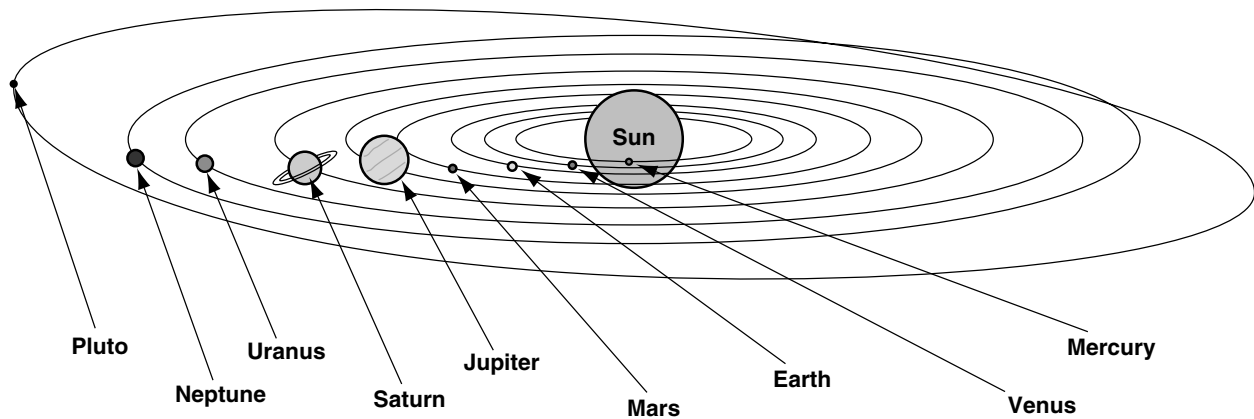
- 11 One of the largest black sea bass ever caught in Florida weighed 5 pounds, 1 ounce.



1 pound = 16 ounces

- Which of the following shows the weight of the black sea bass in ounces?
- A. 81 ounces
 - B. 86 ounces
 - C. 91 ounces
 - D. 96 ounces
- 12 There are about 20 times as many species of ants as there are species of bats. Let b represent the number of species of bats. Which expression represents the number of species of ants?
- E. $b + 20$
 - G. $b \div 20$
 - H. $20 \times b$
 - I. $20 \div b$

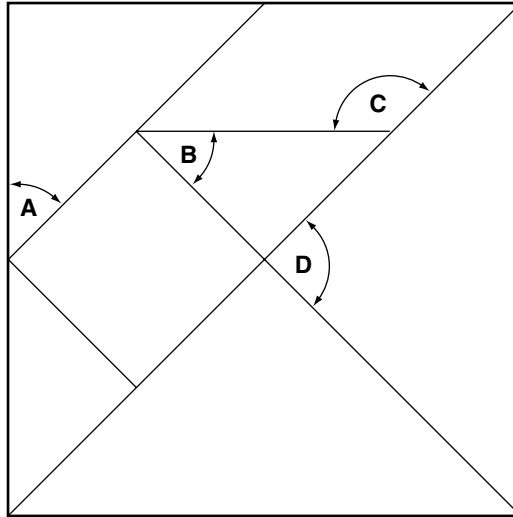
- 13 About $\frac{7}{25}$ of the Earth's crust is made of silicon. Which of the following has the same value as $\frac{7}{25}$?
- A. 0.07
B. 0.18
C. 0.25
D. 0.28
- 14 The two smallest planets in the solar system are Pluto and Mercury. Pluto has a diameter of 1,413 miles. Mercury has a diameter of 3,032 miles.



How much larger is the diameter of Mercury than the diameter of Pluto?

- F. 1,519 miles
G. 1,619 miles
H. 1,621 miles
I. 2,629 miles

- 15 A tangram is an ancient Chinese puzzle. It is made of seven pieces that fit together to make a square.



Which of the angles marked in the tangram puzzle above is an **obtuse** angle?

- A. Angle A
- B. Angle B
- C. Angle C
- D. Angle 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

Notes



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