



# ***New York State Testing Program***

## **Mathematics Test Book 1**

Grade **4**

**March 2–6, 2009**



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## TIPS FOR TAKING THE TEST

Here are some suggestions to help you do your best:

- Be sure to read carefully all the directions in the test book.
- Read each question carefully and think about the answer before choosing your response.



This picture means that you will use your ruler.

## Sample A

$$\begin{array}{r} 227 \\ + 14 \\ \hline \end{array}$$

- A 311
- B 241
- C 231
- D 232

## Sample B



What number will be served next?



A



B



C



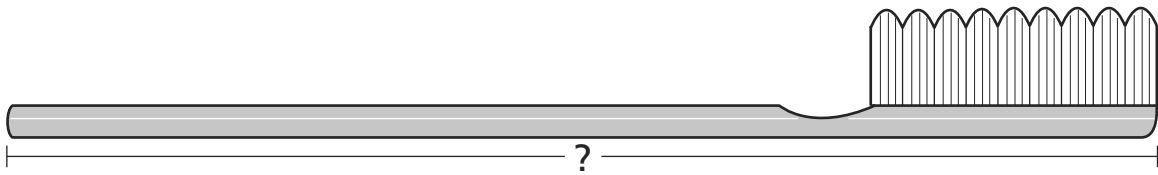
D

## Sample C



Use your ruler to help you solve this problem.

How many inches long is the toothbrush shown below?



- A  $4\frac{1}{2}$
- B 5
- C  $5\frac{1}{2}$
- D 6

**STOP**



- 1** Four students at a fair bought the game tickets shown below.

Number <b>8,597</b>	Number <b>7,896</b>	Number <b>8,759</b>	Number <b>7,658</b>
------------------------	------------------------	------------------------	------------------------

Which list shows the numbers on the tickets in order from the **greatest** to the **least**?

- A** 8,597    8,759    7,896    7,658
- B** 7,658    7,896    8,759    8,597
- C** 8,759    8,597    7,896    7,658
- D** 7,896    8,759    7,658    8,597

**2**  $6 \times 7 =$

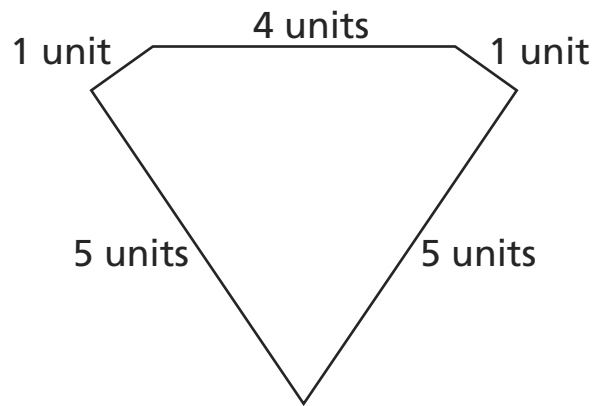
- A** 35
- B** 42
- C** 48
- D** 49

***Go On***

**3** What number is equal to 12 thousands + 4 tens + 7 ones?

- A** 1,247
- B** 2,047
- C** 12,047
- D** 12,407

**4** Abigail drew the figure below.



[not drawn to scale]

What is the perimeter, in units, of the figure?

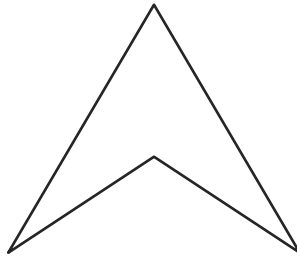
- A** 5
- B** 6
- C** 10
- D** 16



**5** Jonathan is earning points by selling magazines. He earned 2,325 points in April and 3,746 points in May. What is the total number of points Jonathan earned in April and May?

- A** 5,061
- B** 5,071
- C** 6,061
- D** 6,071

**6** How many line segments does the shape shown below have?



- A** 2
- B** 3
- C** 4
- D** 5

***Go On***

- 7** Which number belongs on the line below to make the number sentence correct?

$$4 + \underline{\quad ? \quad} < 2 + 7$$

- A** 3
- B** 5
- C** 7
- D** 9

- 8** Which expression is equal to  $(34 \times 5) \times 2$ ?

- A**  $2 \times (5 + 34)$
- B**  $(2 \times 5) + 34$
- C**  $34 \times (5 \times 2)$
- D**  $34 + (5 \times 2)$

- 9** At a school concert, the student singers stand in 4 rows. There are 16 students in each row. What is the total number of students in the 4 rows?

- A** 20
- B** 44
- C** 54
- D** 64

**10**

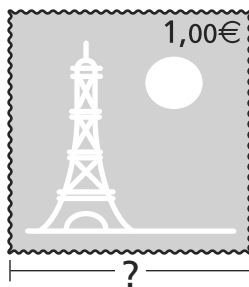
Mr. Rosner buys 48 golf balls. The golf balls are in packages of 6. How many packages does Mr. Rosner buy?

- A 6
- B 7
- C 8
- D 9

**11**

Use your ruler to help you solve this problem.

The stamp shown below is from Ana's stamp collection.



What is the width, in inches, of the bottom of the stamp?

- A 1
- B  $1\frac{1}{4}$
- C  $1\frac{1}{2}$
- D  $1\frac{3}{4}$

**Go On**

**12** Rachel writes a number on the board. The number has the digit 4 in the hundreds place and the digit 2 in the ones place. Which number could Rachel have written?

- A 4,267
- B 4,672
- C 7,426
- D 7,462

**13** Jacob takes 15 boxes of books to the school library. Each box contains 10 books. What is the total number of books Jacob takes to the library?

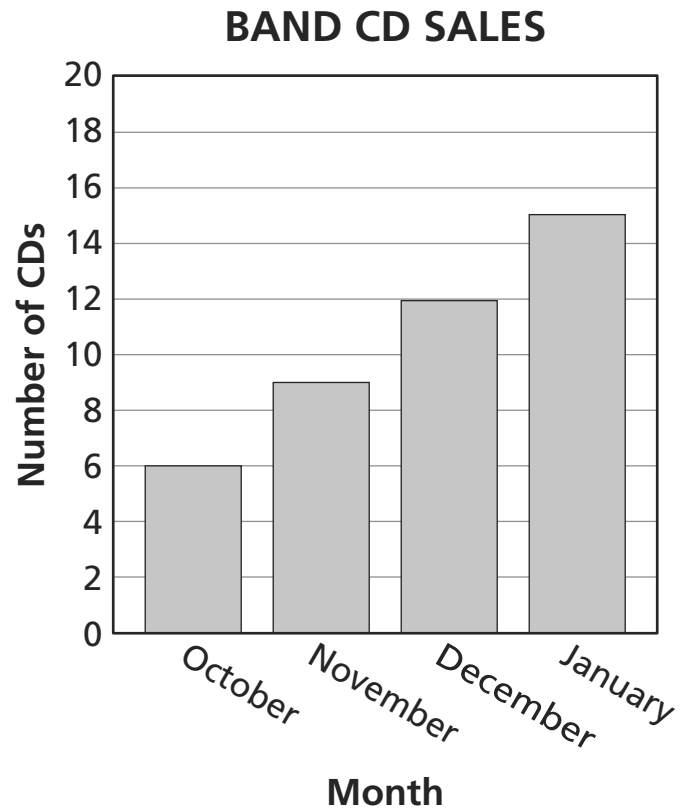
- A 25
- B 150
- C 1,500
- D 1,510

**14** Jon, Vincent, and Alana each have a stamp collection. Jon has 197 stamps, Vincent has 32 stamps, and Alana has 98 stamps. What is the **best estimation** of the total number of stamps the three people have collected?

- A 310
- B 320
- C 330
- D 400

15

Lee's new band is selling CDs. The number of CDs sold during four months is shown in the bar graph below.



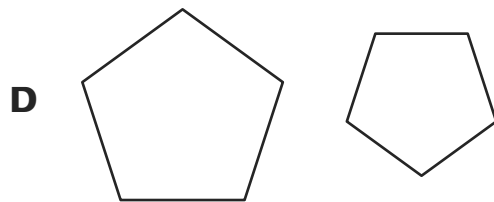
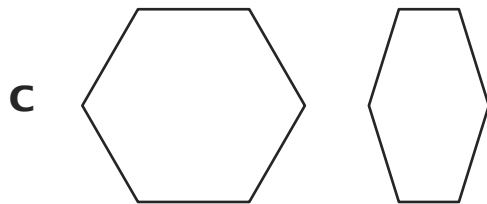
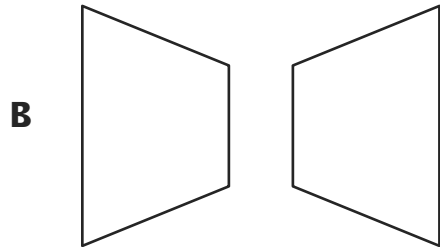
The number of CDs sold each month increased at the same rate through February. How many CDs did the band sell in February?

- A 16
- B 17
- C 18
- D 19

**Go On**

**16**

One pair of shapes shown below is congruent. Which pair of shapes is congruent?

**17**

Sydney writes the number sentence below.

$$24 \div 4 = 6$$

Which number sentence could Sydney use to check her work?

**A**  $6 \div 4 = \underline{\quad ? \quad}$

**B**  $4 \times 6 = \underline{\quad ? \quad}$

**C**  $6 \times 24 = \underline{\quad ? \quad}$

**D**  $24 \times 4 = \underline{\quad ? \quad}$

**18** The science fair at Mike's school is on April 12.

**APRIL**

SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5
6	7	8	9	10	11	12 Science Fair
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

The spring festival at his school is 2 weeks and 3 days after the science fair.  
On what date is the spring festival?

- A April 15
- B April 18
- C April 26
- D April 29

***Go On***

- 19** Joey makes the Input-Output table shown below.

**JOEY'S INPUT-OUTPUT TABLE**

Input	Output
3	18
5	20
15	30
20	35

What rule could be used to find each Output number?

- A** Add 2 to the Input number.
- B** Add 15 to the Input number.
- C** Multiply the Input number by 4.
- D** Multiply the Input number by 6.

- 20** Which fraction is equivalent to  $\frac{2}{6}$ ?

- A**  $\frac{1}{2}$
- B**  $\frac{1}{3}$
- C**  $\frac{1}{4}$
- D**  $\frac{1}{5}$



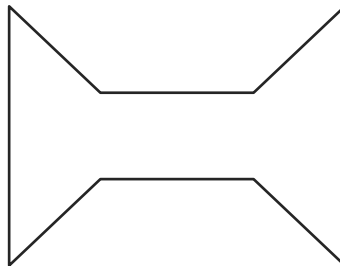
**21** The two statements below describe the number of apples, bananas, and oranges in a bowl.

- the number of apples  $>$  the number of oranges
- the number of bananas = the number of oranges

Which could be the number of apples, bananas, and oranges in the bowl?

- A** 4 apples, 2 bananas, 2 oranges
- B** 4 apples, 4 bananas, 2 oranges
- C** 2 apples, 4 bananas, 4 oranges
- D** 4 apples, 2 bananas, 4 oranges

**22** What is the name of the shape below?




- A** octagon
- B** hexagon
- C** pentagon
- D** quadrilateral

***Go On***





**23**

The pictograph below shows the total number of library books Ms. Campbell's class read during a four-week period.

### LIBRARY BOOKS

KEY	
	= 2 Books

Week	Number of Books Read
1	
2	
3	
4	

If the pattern in the pictograph continues for two more weeks, how many books will have been read by the end of **Week 6**?

- A** 11
- B** 16
- C** 18
- D** 22

- 24** Steve writes the number pattern below.

13 , 19 , 25 ,    ? , 37 , 43

What is the missing number in Steve's pattern?

- A** 27
- B** 29
- C** 31
- D** 33

- 25** Ms. Snyder wants to buy 5 pencils for each of her 28 students. She estimates she must buy 150 pencils. Which statement **best** explains whether Ms. Snyder's estimate is reasonable?

- A** It is reasonable because  $5 \times 30 = 150$ .
- B** It is reasonable because  $5 \times 25 = 125$ .
- C** It is not reasonable because  $5 \times 28 = 140$ .
- D** It is not reasonable because  $5 \times 20 = 100$ .

- 26** At the beginning of the day, there were 813 hot dogs at the county fair. During the day, 597 hot dogs were sold. What expression can be used to **estimate** the number of hot dogs left at the end of the day?

- A**  $800 - 500$
- B**  $800 - 600$
- C**  $900 - 500$
- D**  $900 - 600$

***Go On***

**27** Every month Mr. Jenkins buys 2 magazines. Each magazine costs 3 dollars. Which expression could be used to find the total cost of the 2 magazines for 12 months?

- A**  $2 \times 12$
- B**  $3 \times 12$
- C**  $2 + 3 \times 12$
- D**  $2 \times 3 \times 12$

**28** Mr. Starr began working in his garden at 8:00 A.M. He finished working at 11:30 A.M. How long did Mr. Starr work in his garden?

- A** 2 hours 30 minutes
- B** 3 hours
- C** 3 hours 30 minutes
- D** 4 hours

**29** There were 34 people riding in 5 cars on a roller coaster ride. If there were 8 people riding in each of the first 4 cars, how many people were riding in the last car?

- A** 1
- B** 2
- C** 3
- D** 4

**30** Which unit of measure is **best** for measuring the amount of water in a bathtub?

- A** liter
- B** gram
- C** meter
- D** milliliter

**STOP**







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