New York State Testing Program

Mathematics
Book 1

Grade **4**

March 6–10, 2006

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.
- You may use your tools to help you solve any problem on the test.
- Read each question carefully and think about the answer before choosing your response.

This picture means that you will use your ruler.

This picture means that you will use your pattern blocks.

This picture means that you will use your counters.

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Book 1

Page 1

Sample A

227
+ 14
_____

    A   311

    B   241

    C   231

    D   232

Sample B

NOW SERVING

3 **7** **9**

What number will be served next?
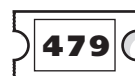
389	381	479	380
F	**G**	**H**	**J**

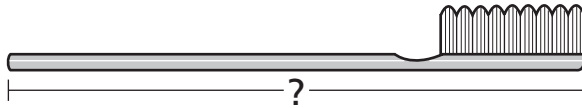## Sample C

Use your ruler to help you solve this problem.

How many inches long is the toothbrush shown below?

A   2

B $2\frac{1}{2}$

C   3

D $3\frac{1}{2}$

STOP

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Book 1

Page **3**

1   Which number is the same as six thousand eighty-three?
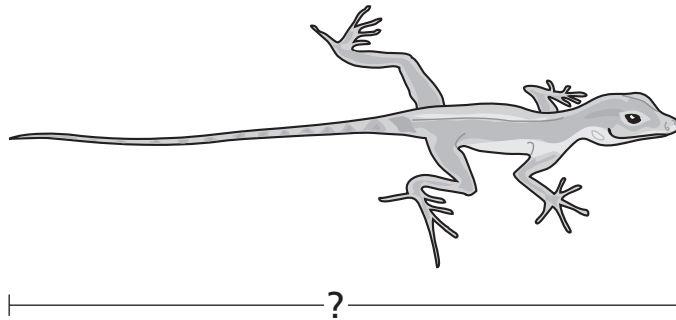
A   683

B   6,083

C   6,803

D   6,830

2   Use your ruler to help you solve this problem.

Brendon drew the picture of a lizard below.

How many inches long is the lizard?

F   3

G $3\frac{1}{4}$

H $3\frac{1}{2}$

J $3\frac{3}{4}$

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Book 1

Page 5

3 A checkerboard has 8 rows with 8 squares in each row. How many total squares are on a checkerboard?

    A   56

    B   64

    C   72

    D   88

4 Anna, Jeff, and Judah together earned $27.00 washing cars. They will share the money equally. Which number sentence could they use to find out how much money they will each get?

    F $\$27.00 + 3 = \square$

    G $\$27.00 - 3 = \square$

    H $\$27.00 \times 3 = \square$

    J $\$27.00 \div 3 = \square$

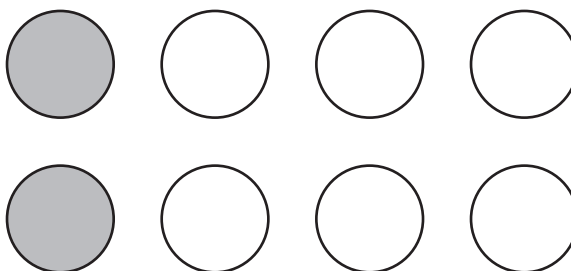**5** Doug's horse weighs 896 pounds. What is 896 rounded to the nearest ten?

    A   890

    B   900

    C   910

    D   1,000

6 Martin shaded $\frac{2}{8}$ of the circles below.

Which fraction is equivalent to $\frac{2}{8}$?

F $\frac{1}{8}$

G $\frac{1}{6}$

H $\frac{1}{4}$

J $\frac{1}{2}$

7 Last week, Nick's mother spent $18.00 on gasoline. This week, she spent $15.96 on gasoline. How much **less** did Nick's mother spend on gasoline this week than last week?

A $2.04

B $2.14

C $3.04

D $3.96

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Book 1

Page 7

8

$$43$$
$$\underline{\times\ 7}$$

    F   50

    G   281

    H   292

    J   301

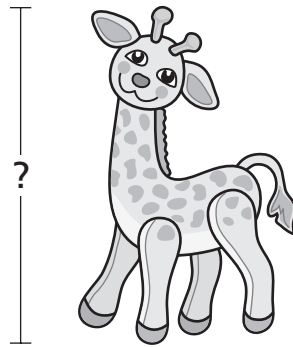**9**   Use your ruler to help you solve this problem.

How many inches tall is the toy giraffe shown below?

    A $1\frac{1}{4}$

    B $1\frac{1}{2}$

    C $1\frac{3}{4}$

    D $2\frac{1}{4}$

10 Which expression has the smallest value?

$$62 \times 1 \qquad 87 \times 0 \qquad 81 \div 9 \qquad 64 \div 8$$

- **F** 62×1
- **G** 87×0
- **H** $81 \div 9$
- **J** $64 \div 8$

11 Mrs. Curtis bought boxes of tea bags at the store. Each box contains 12 tea bags. Which could be the total number of tea bags that Mrs. Curtis bought?

- **A** 34
- **B** 42
- **C** 52
- **D** 60

12 Kyle writes the number sentence below.

$$\square > \frac{1}{3}$$

Which fraction belongs in the box to make the number sentence correct?
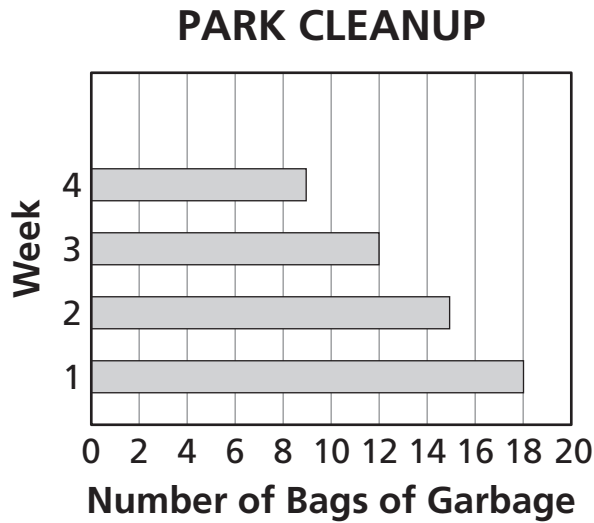
- **F** $\frac{1}{8}$
- **G** $\frac{1}{6}$
- **H** $\frac{1}{4}$
- **J** $\frac{1}{2}$

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Book 1

Page **9**

13 Francine and her friends clean the park each week. The bar graph below shows the number of bags of garbage they have collected in the past 4 weeks.

PARK CLEANUP

Number of Bags of Garbage

Based on the data in the graph, how many bags of garbage will Francine and her friends **most likely** collect in Week 5?

A   2

B   6

C   9

D   12

14 Rosalia wrote the rule below to describe a number pattern.

add 2, subtract 1, add 2, subtract 1

Which pattern was made using Rosalia's rule starting with the number 20?

F   20, 22, 24, 26, 28

G   20, 21, 19, 20, 18

H   20, 22, 21, 23, 22

J   20, 19, 18, 17, 16

15 A football stadium has 9,607 seats. At one game, people sat in 7,599 of the seats. How many seats were empty?

A 1,008

B 2,008

C 2,108

D 2,192

16 Students at the elementary school are washing cars to raise money for a trip. The table below shows the amount of money they raised on each of the 5 days.

CAR WASH FUNDRAISER

Day	Money Raised
1	$54.00
2	$48.00
3	$47.00
4	$51.00
5	$49.00

Which is the best estimate of the total number of days it will take the students to raise a total of $500.00?

F 8

G 10

H 12

J 14

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Book 1

Page 11

17 If the pattern below continues, how many small squares ▢ will be in figure 5?

1   2   3   4   5
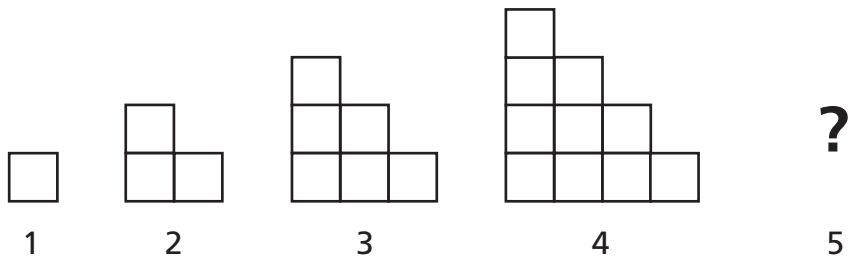
A   13

B   14

C   15

D   16

18 Which expression is equal to $(56 \times 25) \times 34$?

F $56 \times (25 + 34)$

G $56 \div (25 \times 34)$

H $56 + (25 \times 34)$

J $56 \times (25 \times 34)$

19 Jamie naps every day. He falls asleep at 3:30 P.M. and wakes up at 5:00 P.M. How long does Jamie sleep?

A   2 hours 30 minutes

B   2 hours

C   1 hour 30 minutes

D   1 hour

20 Megan started her rock collection with 19 rocks. Each week, she found the same number of rocks to add to her collection. The table below shows the total number of rocks in her collection each week.
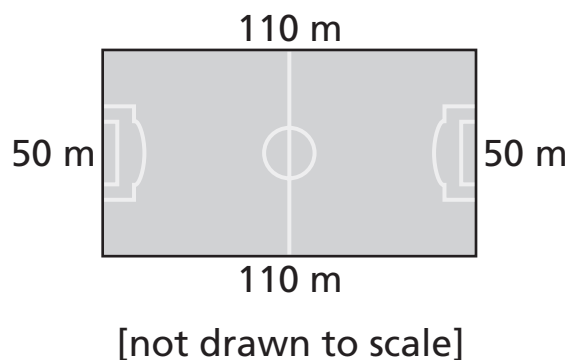
MEGAN'S ROCK COLLECTION

Week	Number of Rocks in Collection
1	19
2	25
3	31
4	37
5	?

How many rocks will Megan have in her collection in Week 5?

F   42

G   43

H   44

J   45

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Page 13

21 A drawing of a soccer field is shown below.

110 m

50 m   50 m

110 m

[not drawn to scale]

What is the perimeter, in meters, of the soccer field?

A 160

B 270

C 320

D 5,500

22 Which unit of measure is **best** for measuring how much a cherry weighs?

F gram

G meter

H kilogram

J centimeter

23 Mr. Crandall buys 44 roses. He has 7 vases. He puts 6 roses in each vase. How many roses does Mr. Crandall have left over?

A 1

B 2

C 6

D 7

24 Melissa is drawing a hexagon. The three line segments she has drawn so far are shown in the picture below.

How many **more** line segments must Melissa draw to complete the hexagon?

F 1

G 2

H 3

J 4

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Book 1

Page 15

25 Which number sentence always results in an answer that is an odd number?

A   even number $\times$ even number = ☐

B   even number $\times$ odd number = ☐

C   odd number $\times$ even number = ☐

D   odd number $\times$ odd number = ☐

26 The lengths of three hiking trails at Watley Park are shown in the table below.

WATLEY PARK TRAILS

Name of Trail	Length of Trail
Clover	$\frac{1}{3}$ mile
Sunset	$\frac{1}{2}$ mile
Rose	$\frac{1}{4}$ mile

Which list shows the trails in order from **shortest** to **longest**?

F   Clover, Rose, Sunset

G   Clover, Sunset, Rose

H   Rose, Sunset, Clover

J   Rose, Clover, Sunset

27 When the number square below is completed, any three numbers in a line will add up to 24. The three numbers can be added across, up, down, or diagonally.

6		2
A	8	
	0	10

What number belongs in Box A?

A 4

B 9

C 14

D 16

28 Which unit of measure is **best** to use for measuring the thickness of a dictionary?

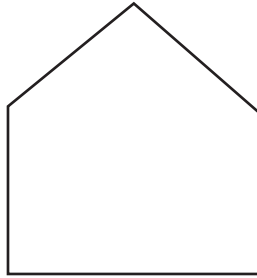**F** centimeter

G kilometer

H foot

J yard

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Page 17

29 What are the next two numbers in the pattern below?

$$1, 2, 4, 8, 16, \underline{\quad}, \underline{\quad}$$

A   20, 28

B   24, 32

C   32, 48

D   32, 64

30 What is the name of the shape below?

F   pentagon

G   trapezoid

H   hexagon

J   parallelogram

STOP

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