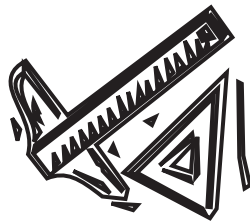Grade **4**

New York State Testing Program

Mathematics

Book 1

May 4–6, 2004

TIPS FOR TAKING THE TEST

Here are some suggestions to help you do your best:

- Be sure to carefully read all the directions in the Test Book.
- Ask your teacher to explain any directions you do not understand.
- You may use your tools to help you solve any problem on the test.
- Read each question carefully and think about the answer before writing a response.

This picture means that you will use your ruler.

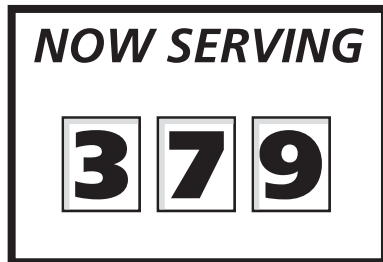This picture means that you will use your pattern blocks.

This picture means that you will use your counters.

Sample A

227
+ 14

A 311
B 241
C 231
D 232

Sample B

NOW SERVING

3 7 9

Which number will be served next?

389
F

381
G

479
H

380
J

Go On

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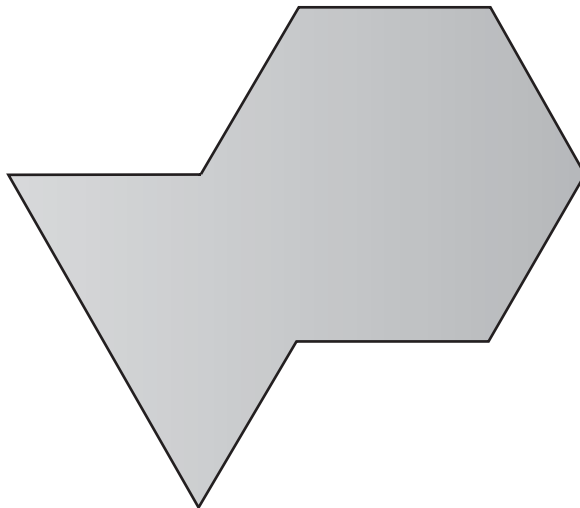until end of designated makeup schedule.

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Sample C

Use your pattern blocks to help you solve this problem.

How many of the green triangles would be needed to cover exactly $\frac{2}{3}$ of the shape below?

A 1
B 3
C 6
D 9

1
$$347$$
$$+\ 56$$

A 391
B 393
C 402
D 403

2
$$394$$
$$-\ 58$$

F 236
G 336
H 344
J 346

Go On

3   Jane's mother bought 6 bags of fruit at the grocery store.

| red | yellow | yellow |

| red | purple | yellow |

What fractional part of the bags contained red fruit?

A $\frac{1}{6}$

B $\frac{2}{6}$

C $\frac{3}{6}$

D $\frac{4}{6}$

4   What tool should Holly use to measure the weight of a rock?

F   ruler

G   scale

H   thermometer

J   compass

5 Ms. Cochran told her class that they would play kickball during 1 of the morning recesses next week. There are 5 morning recesses each week. What is the probability that the class will play kickball next Monday morning?

A 1 out of 4

B 1 out of 5

C 1 out of 7

D 5 out of 5

6 What numbers should be next in the pattern shown below?

$$14, 14, 15, 15, 16, \square, \square$$

F 15, 16

G 16, 16

H 16, 17

J 17, 17

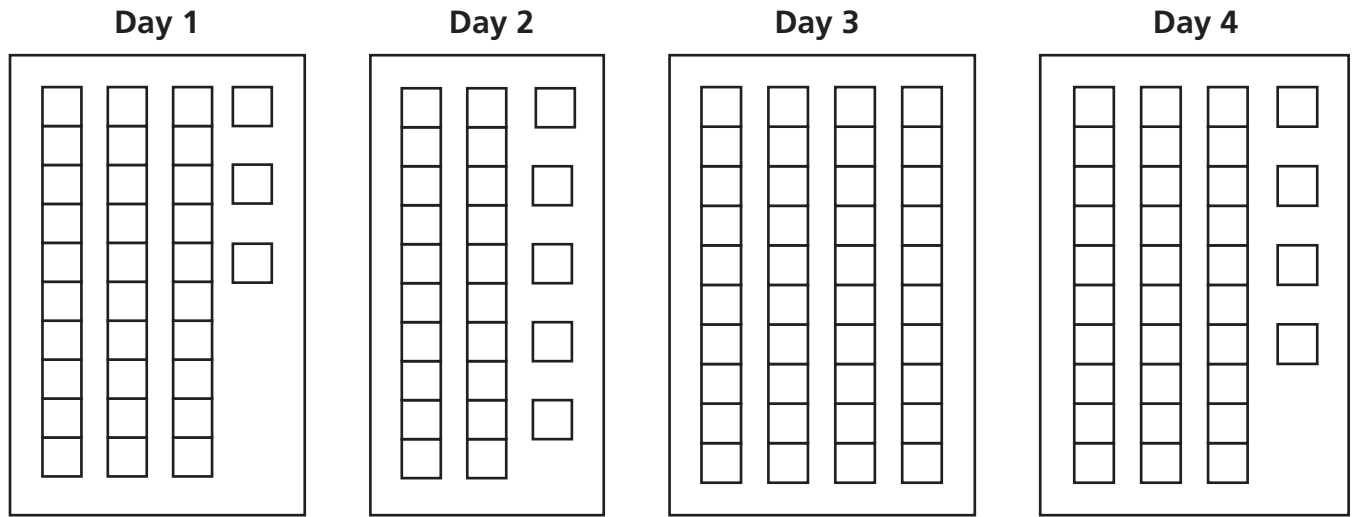**7** Use your counters to help you solve this problem.

Carla had 8 sticks of gum. She gave $\frac{2}{8}$ of her sticks of gum to her friends.

How many sticks of gum does Carla have left?

A 2

B 3

C 4

D 6

Go On

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8 The students in art class were building a castle with blocks. The pictures below show how many blocks they used each day in building the castle.

| Day 1 | Day 2 | Day 3 | Day 4 |

After 4 days the castle was complete. How many blocks in all were used to make the castle?

F 112

G 122

H 124

J 132

9 There are 100 questions on Monica's test. She has completed 40 of the questions. What percent of the 100 questions has Monica completed?
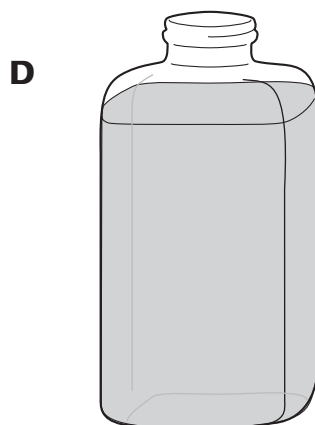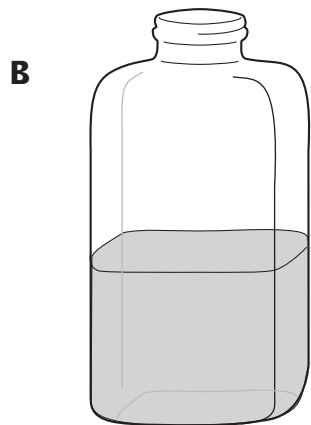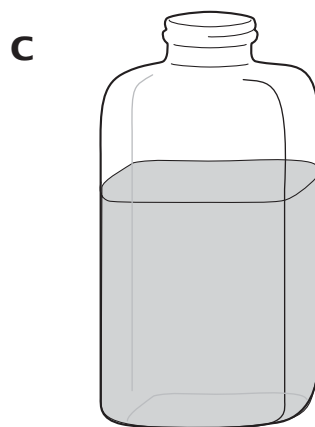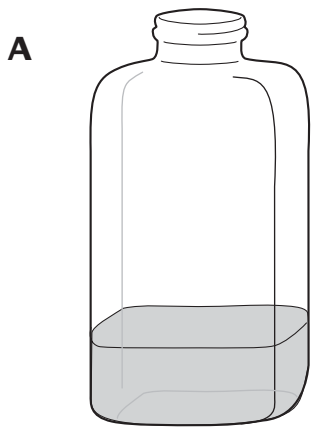
A 0.4%

B 4%

C 40%

D 400%

10 The highest temperatures recorded in 4 different countries are listed below.

127.6°F Australia
114.8°F Spain
136.4°F Libya
134.0°F United States

What is the highest temperature listed above?

F 127.6°F

G 114.8°F

H 136.4°F

J 134.0°F

11 Which of these 475-milliliter bottles has about 200 milliliters of water in it?

A

C

B

D

Go On

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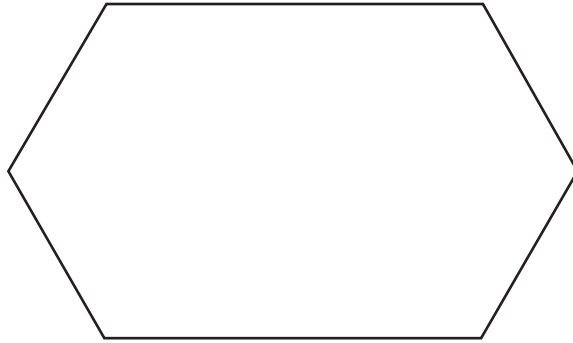until end of designated makeup schedule.

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12 Use your pattern blocks to help you solve this problem.

What fraction of the shape below is covered by one blue pattern block?

F $\frac{1}{3}$

G $\frac{1}{4}$

H $\frac{1}{5}$

J $\frac{1}{6}$

13 A horse's height is measured in a unit called a *hand*. A hand measures 4 inches. What is the height, in inches, of a horse that measures 14 hands?

A 36

B 46

C 56

D 66

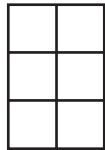**14** The table below shows the population of New York State.

POPULATION OF NEW YORK STATE

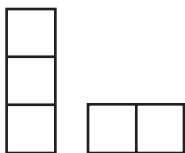| Year	Number of People
1850	3 million
1880	5 million
1910	9 million
1990	18 million

How many *more* people were there in New York in 1990 than in 1880?

F 9 million

G 13 million

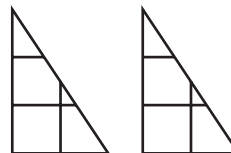**H** 15 million

J 18 million

15

Which 2 shapes could be put together to form the rectangle above?

A   **B**   **C**   **D**

Go On

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Do not reproduce. Do not discuss contents
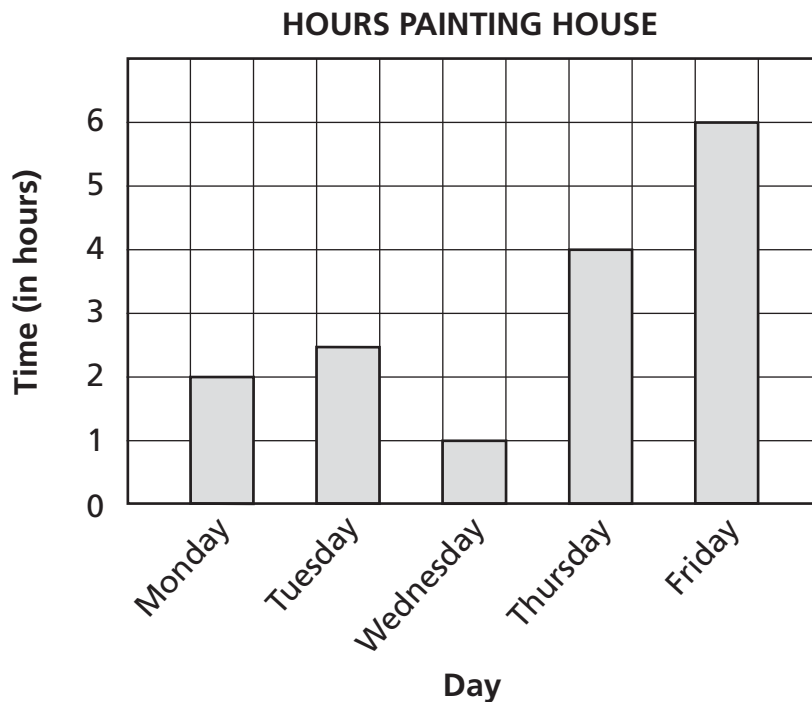until end of designated makeup schedule.

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16 Michelle earned $5.00 for every hour she babysat. Last week she babysat for 8 hours. She spent $12.00 of the money she earned. Which expression could be used to find how much money she had left?

F $5.00 × 8 + $12.00
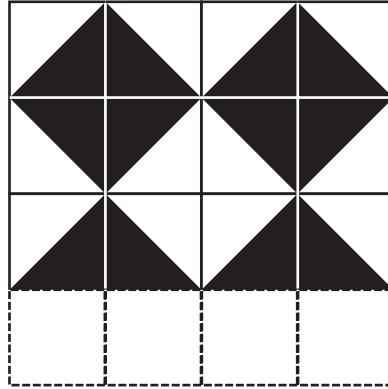
G $5.00 + 8 − $12.00

H $5.00 × 8 − $12.00

J $5.00 × 8 ÷ $12.00

17 Mr. Pierce is painting his house. The graph below shows how many hours he spent painting during 5 days.

HOURS PAINTING HOUSE

How many *more* hours did Mr. Pierce spend painting his house on Friday than on Wednesday?
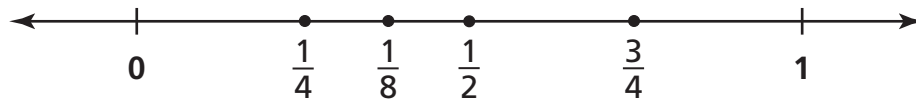
A 4

B 5

C 6

D 7

Session 1

18 The diagram below shows the pattern Ron is using to put tiles on his floor.

Which row of tiles is the *missing* row from Ron's floor?

F

G

H

J

19 What fraction on the number line below is in the *wrong* place?

A $\frac{1}{4}$

B $\frac{1}{8}$

C $\frac{1}{2}$

D $\frac{3}{4}$

Go On

20 Mr. Conway bought 73 rolls of film. He can take 24 pictures with each roll of film. What is the total number of pictures he can take with 73 rolls of film?

F 1,642

G 1,652

H 1,742

J 1,752

21 Ms. Ruiz's class and Mr. DeFranco's class are competing in a school Read-A-Thon.

BOOKS READ EACH WEEK

Week	Ms. Ruiz's Class	Mr. DeFranco's Class
1	10	8
2	9	10
3	13	12

According to the table, which statement is *true*?

A In 3 weeks Mr. DeFranco's class read more books than Ms. Ruiz's class.

B In the first 2 weeks Mr. DeFranco's class read more books than Ms. Ruiz's class.

C Ms. Ruiz's class read fewer books during week 1 than Mr. DeFranco's class read during week 1.

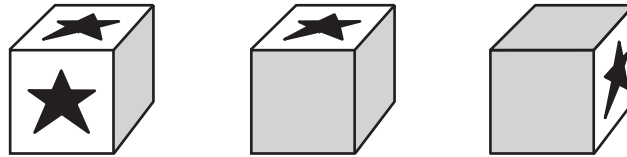D Ms. Ruiz's class read the same number of books during week 1 as Mr. DeFranco's class read during week 2.

22 Mario counted to 60 using multiples of 6. Which statement is true about multiples of 6?

F They are all odd numbers.

G They all have 6 in the ones place.

H They can all be divided evenly by 3.

J They can all be divided evenly by 12.

23 Corrie bought peanut butter, bread, and jelly at the store. The price of the peanut butter was more than the prices of the bread and jelly added together. Which statement is true about the prices of the peanut butter, bread, and jelly?

A peanut butter $>$ bread $+$ jelly

B peanut butter $<$ bread $+$ jelly

C peanut butter $\geq$ bread $+$ jelly

D peanut butter $\leq$ bread $+$ jelly

24 Each of the 3 blocks below has a star on 3 of its 6 sides.

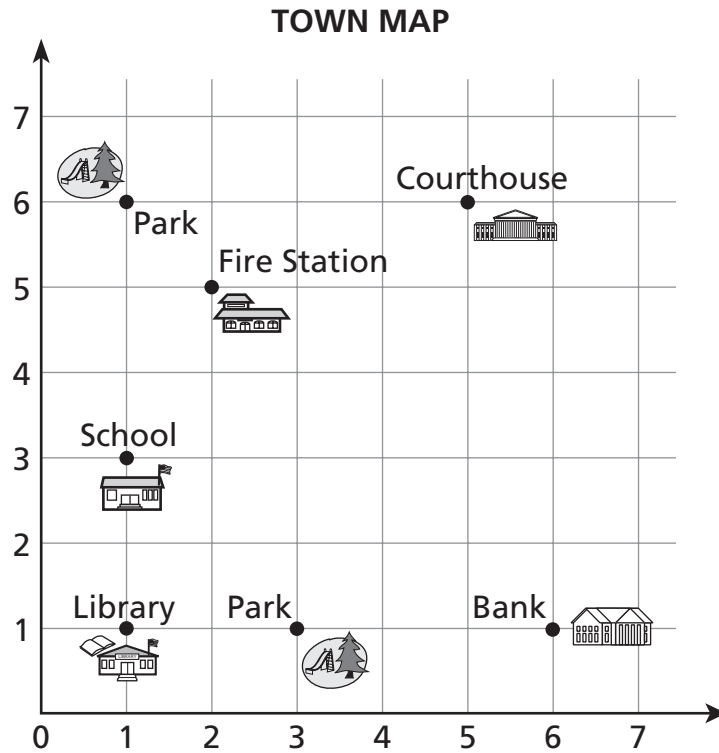What is the total number of stars that *cannot* be seen on the blocks above?

F 2

G 4

H 5

J 9

25 Natalie ate 28 french fries at lunch. Mark ate half as many french fries as Natalie. Andrew ate 3 more french fries than Mark. Which number sentence will find the number of french fries Andrew ate?

A $(28 - 3) \div 2 = \square$

B $(28 + 3) \div 2 = \square$

C $(28 \div 2) - 3 = \square$

D $(28 \div 2) + 3 = \square$

Go On

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Session 1

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26 Willie and Melissa are at the library. They are using the town map below to find the park that is closest to the library.

TOWN MAP

Which ordered pair shows the location of the park closest to the library?

F (1, 3)

G (1, 6)

H (3, 1)

J (6, 1)

27 Susan quickly estimated the product of 796 × 19 this way:

- She rounded each number to the nearest ten.
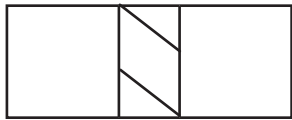- She multiplied these new numbers together.

What was Susan's estimate?

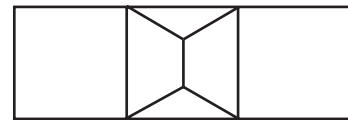**A** 14,000

B 15,010

C 15,200

D 16,000

28 Jane, Karim, and Leo checked out books from the library. Jane has an even number of library books. Karim has 3 more library books than Jane. Leo has 2 more library books than Karim. Which statement is true about the number of library books Karim and Leo have?

  F Karim's number is odd, and Leo's number is odd.

  G Karim's number is odd, and Leo's number is even.

  H Karim's number is even, and Leo's number is odd.

  J Karim's number is even, and Leo's number is even.
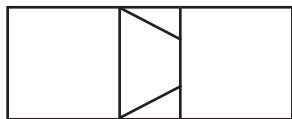
29 Daniel drew lines on a rectangle to make a figure with exactly 2 squares, 2 triangles, and 1 trapezoid. Which figure is the one that Daniel drew?

A

C

B

D

30 Sarah is 120 centimeters tall. Sarah is 2 times as tall as Jody.

Which statement is true?

  F Sarah is 60 centimeters taller than Jody.

  G Sarah is 120 centimeters taller than Jody.

  H Sarah is 60 centimeters shorter than Jody.

  J Sarah is 120 centimeters shorter than Jody.

STOP

Book 1
Mathematics
Grade 4
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