

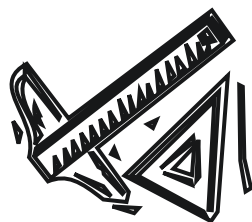


# ***New York State Testing Program***

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## **Mathematics**

**Book 1**



**May 10–12, 2005**

## 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.
- 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

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

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

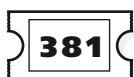
## Sample B



Which number will be served next?



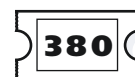
F



G



H



J

**Go On**

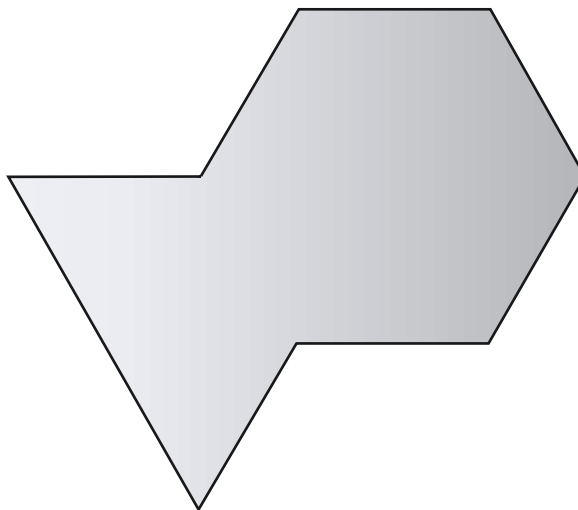
## Sample C



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



**STOP**

**1**  $51 - 28 =$

**A** 22

**B** 23

**C** 33

**D** 37

**2**  $56 \div 8 =$

**F** 6

**G** 7

**H** 8

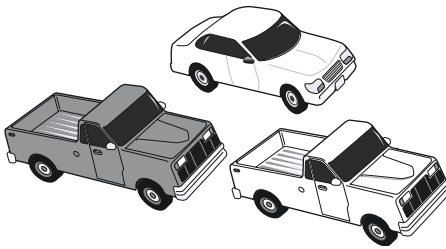
**J** 9

***Go On***

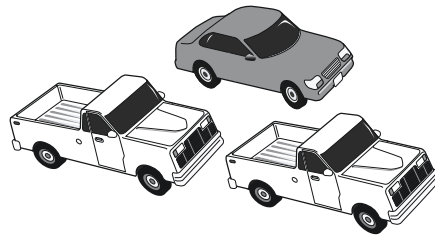
**3** Which expression is another way to write  $(3 \times 9) - 6$ ?

- A**  $(9 + 3) - 6$
- B**  $(9 - 3) - 6$
- C**  $(9 \times 3) - 6$
- D**  $(9 \div 3) - 6$

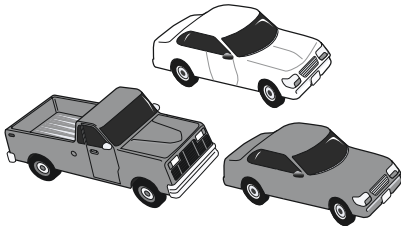
**4** Ted has 3 toys. He has more gray toys than white toys. He has more toy trucks than toy cars. Which could be Ted's group of toys?



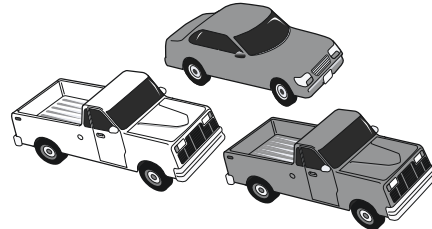
**F**



**H**



**G**



**J**

- 5** At lunchtime, some students measured their shadows. The table below shows the lengths of their shadows.

**STUDENT SHADOWS**

Student	Shadow Length (in centimeters)
Joshua	29.4
Natalia	27.9
Emily	29.6
Luis	28.8

Which student has the longest shadow?

- A** Joshua
- B** Natalia
- C** Emily
- D** Luis

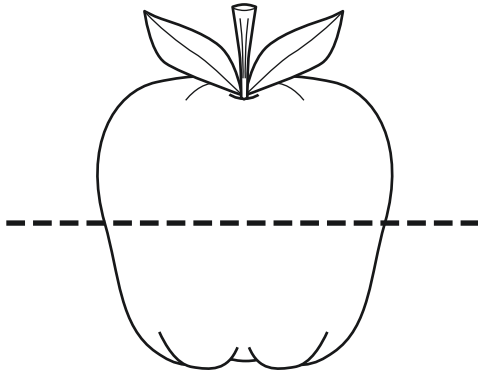
- 6** In the pattern below, which number belongs in the box?

42, 38, 34, , 26

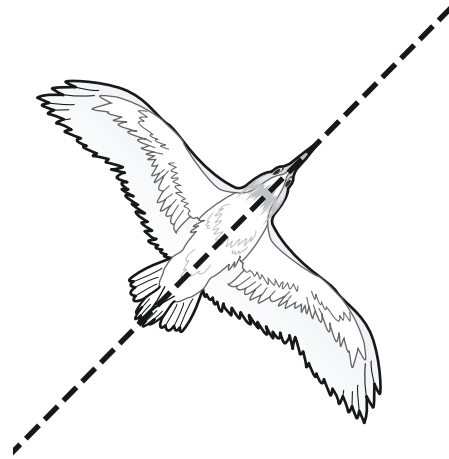
- F** 28
- G** 30
- H** 31
- J** 32

***Go On***

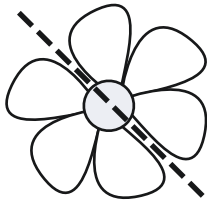
7 Alonzo noticed examples of symmetry in nature. Which drawing does *not* show a line of symmetry?



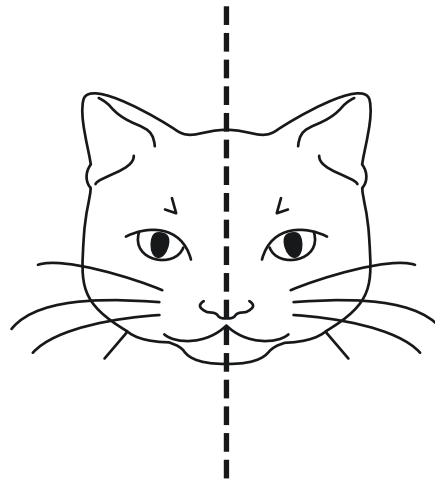
A



C



B



D



**8** Ms. Brown will randomly choose a student in Justin’s class to erase the board. There are 26 students in the class. What is the probability that Ms. Brown will choose Justin to erase the board?

- F** 1 out of 25
- G** 1 out of 26
- H** 13 out of 26
- J** 25 out of 26

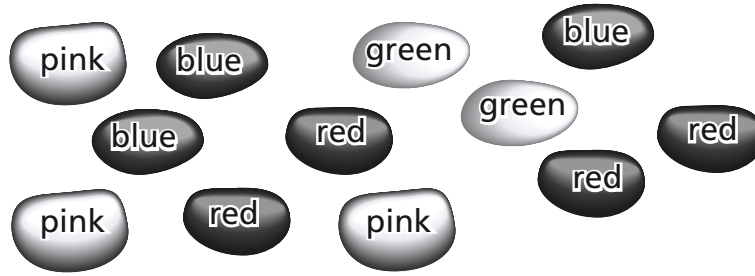
**9** If  $37 \times 19 = 703$ , which equation must also be true?

- A**  $703 + 37 = 19$
- B**  $703 - 37 = 19$
- C**  $703 \times 37 = 19$
- D**  $703 \div 37 = 19$

**10** Which unit would be best for estimating the length of the Hudson River?

- F** millimeters
- G** centimeters
- H** decimeters
- J** kilometers

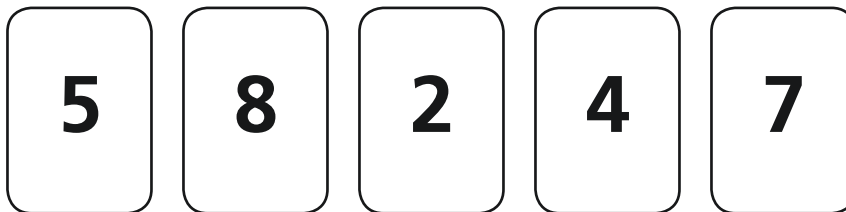
**11** Karla has these jellybeans in a bag:



What fractional part of the jellybeans are blue?

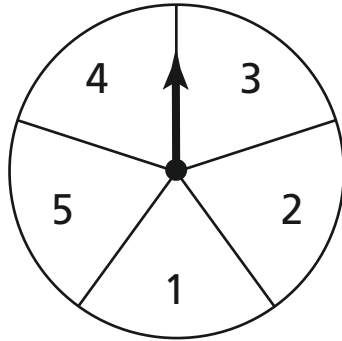
- A  $\frac{1}{12}$
- B  $\frac{3}{12}$
- C  $\frac{4}{12}$
- D  $\frac{9}{12}$

**12** Janice is playing with number cards. Her goal is to make the largest possible number. What is the largest number that Janice can make using the number cards below?



- F 58,247
- G 24,578
- H 87,542
- J 85,742

- 13** Rosa is playing a game with the spinner shown below. The parts of the spinner are equal in area. She needs the spinner arrow to land on an even number to win.



What is the probability the arrow will land on an even number?

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

- 14** Mike scored a total of 17 points during the four quarters of a basketball game. He scored 5 points in the first quarter, 4 points in the second quarter, and 5 points in the third quarter. How many points did Mike score in the fourth quarter?

- F 2
- G 3
- H 4
- J 5

- 15** Tina bought some gum. The number of pieces of each flavor of gum she bought is shown below.

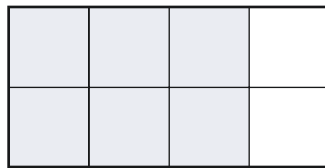
**GUM TINA BOUGHT**

Flavor of Gum	Number of Pieces
Grape	40
Cherry	40
Peppermint	20
<b>TOTAL</b>	<b>100</b>

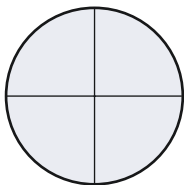
What percent of the total number of pieces of gum are peppermint flavor?

- A** 20%
- B** 40%
- C** 60%
- D** 80%

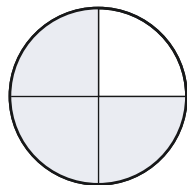
- 16** Joe shaded a fraction of his rectangle as shown below.



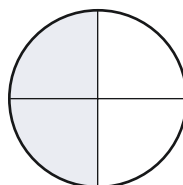
Which circle has the equivalent fractional part shaded as Joe's rectangle?



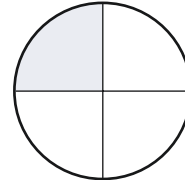
**F**



**G**

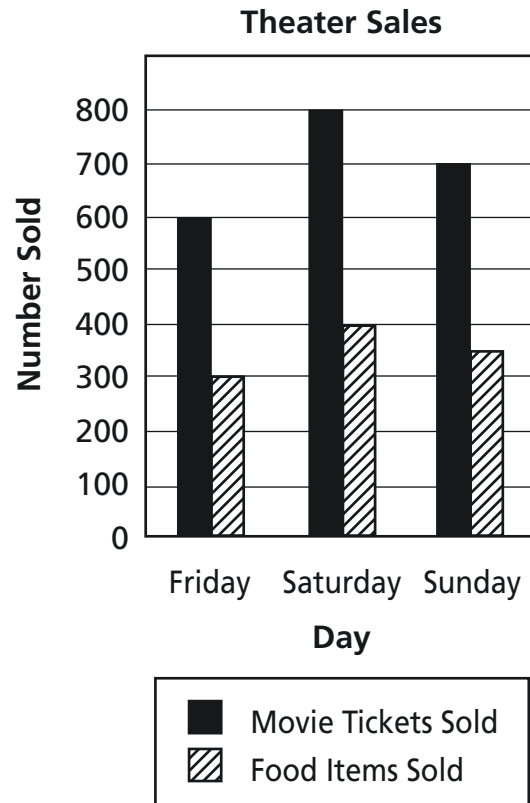


**H**



**J**

- 17** Andrea works at a movie theater. She made the graph below to compare the number of movie tickets with the number of food items that were sold during three days.



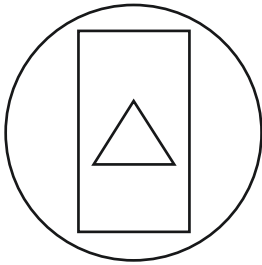
How many *more* movie tickets were sold on Saturday than on Friday?

- A 100
- B 200
- C 300
- D 400

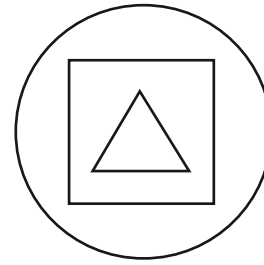
**18** Ms. Jones works at a toy factory. She puts 4 wheels on each toy car that she makes. She only has 35 wheels today. What is the greatest number of toy cars Ms. Jones can put 4 wheels on today?

- F** 3
- G** 4
- H** 8
- J** 9

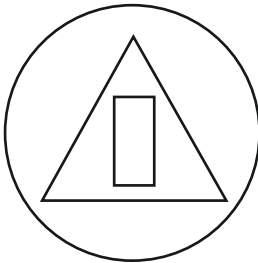
**19** Kendra drew a circle. Inside the circle she drew a triangle. Inside the triangle she drew a square. Which design did Kendra draw?



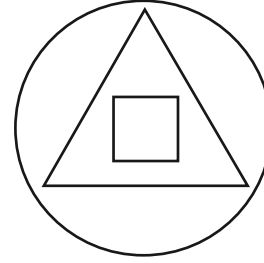
**A**



**C**

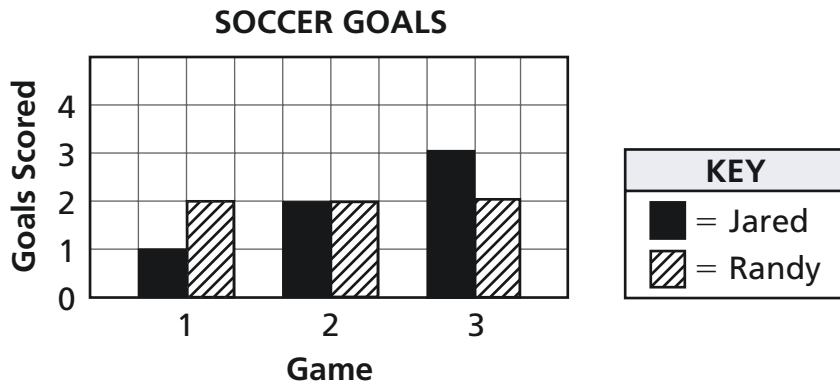


**B**



**D**

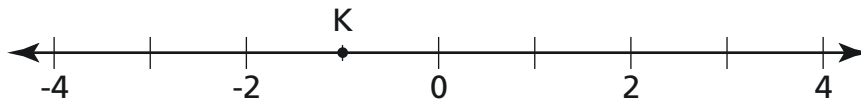
- 20** Jared and Randy played in three soccer games. The graph below shows the number of goals they scored in each game.



Which statement is true about Jared's and Randy's goals?

- F** Jared always scored more goals than Randy.
- G** Randy always scored more goals than Jared.
- H** The number of goals Jared scored increased each game.
- J** The number of goals Randy scored increased each game.

- 21** What is the value of point K on the number line below?



- A** -2
- B** -1
- C** 0
- D** 1

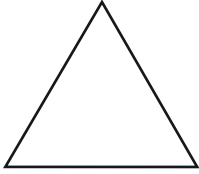
22



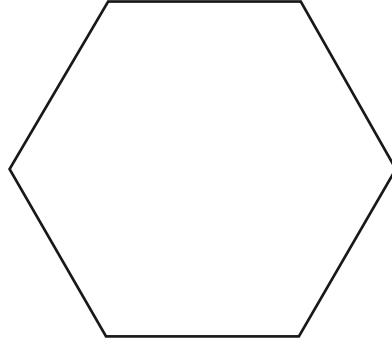
Use your pattern blocks to help you solve this problem.

Which pattern block shape has angles with different sizes?

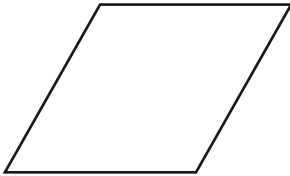
F



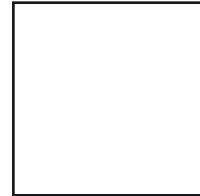
H



G



J



23

Which fraction is equivalent to 0.25?

A  $\frac{1}{25}$

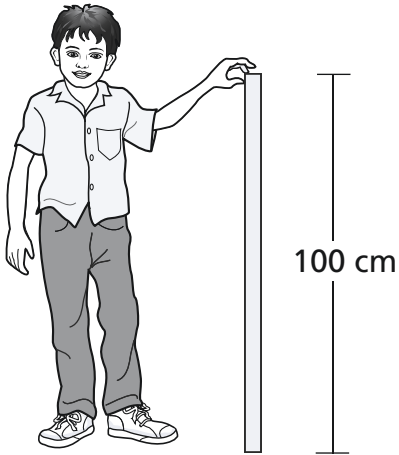
B  $\frac{25}{10}$

C  $\frac{25}{100}$

D  $\frac{25}{1,000}$



- 24** The picture below shows Jordan holding a meter stick.



Which measurement is the best estimate of Jordan's height?

- F** 100 centimeters
- G** 120 centimeters
- H** 150 centimeters
- J** 180 centimeters

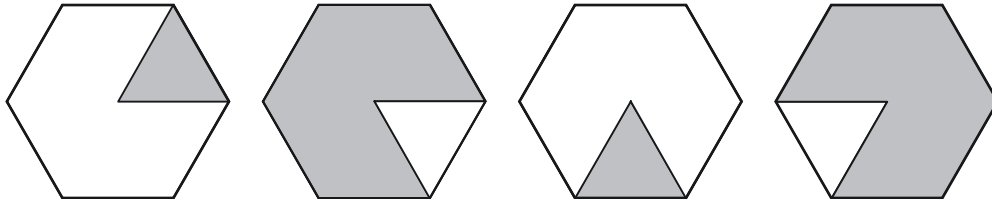
- 25** Norma, Chris, and Jeremy all drank milk at lunch.

- Norma drank more milk than Jeremy.
- Chris drank more milk than Jeremy.

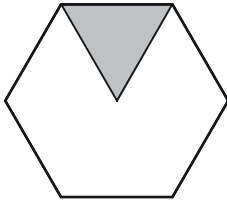
Which statement **must** be true about the amount of milk they drank?

- A** Chris drank the most milk.
- B** Norma drank the most milk.
- C** Chris drank the least milk.
- D** Jeremy drank the least milk.

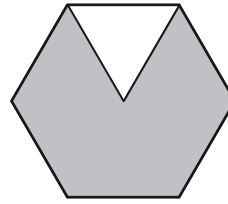
Ted made the pattern below.



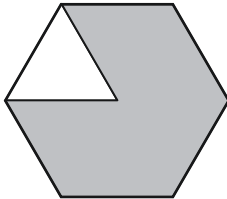
Which figure is next in the pattern?



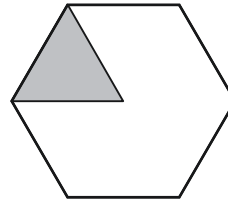
F



H

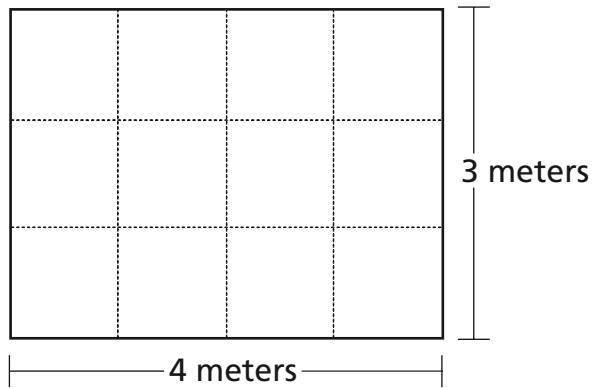


G



J

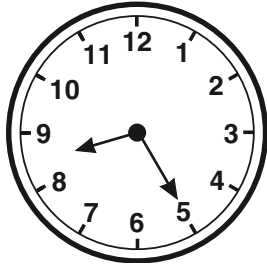
- 27 Gretchen's rabbit plays in the pen shown below.



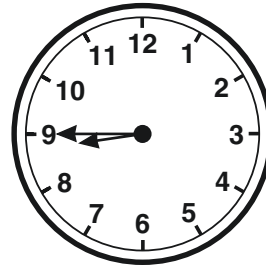
What is the area, in square meters, of the rabbit's pen?

- A 7
- B 10
- C 12
- D 14

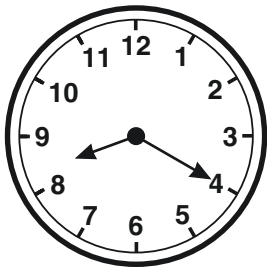
It took Gary 20 minutes to walk from his home to the school. He arrived at school at 8:45 A.M. Which clock shows the time he left his home?



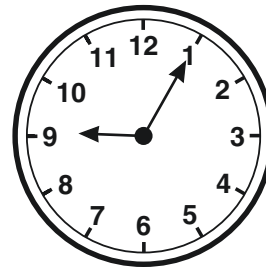
F



H



G



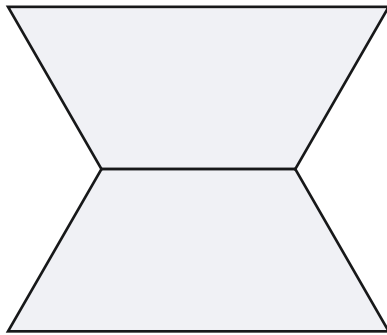
J

29



Use your pattern blocks to help you solve this problem.

What fraction of the shape below does one green triangle cover?



- A  $\frac{1}{3}$
- B  $\frac{1}{4}$
- C  $\frac{1}{6}$
- D  $\frac{1}{8}$

- 30** Nora bought a sandwich and juice from the lunch menu shown below.

<b>LUNCH MENU</b>	
Sandwich	\$3.85
Milk	\$0.92
Juice	\$1.09
Cake	\$1.89

What is the best estimate of the amount of money Nora paid for her lunch?

- F** \$4.00
- G** \$5.00
- H** \$6.00
- J** \$8.00

**STOP**





*The McGraw-Hill Companies*

**Book 1**  
**Mathematics**  
**Grade 4**  
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