New York State Testing Program

Mathematics Test
Book 1

Grade **3**

March 2–6, 2009

21308

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Book 1

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

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

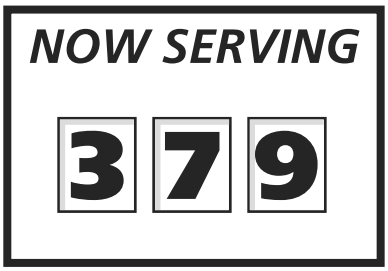
A 311

B 241

C 231

D 232

Sample B



What number will be served next?

A

B

C

D

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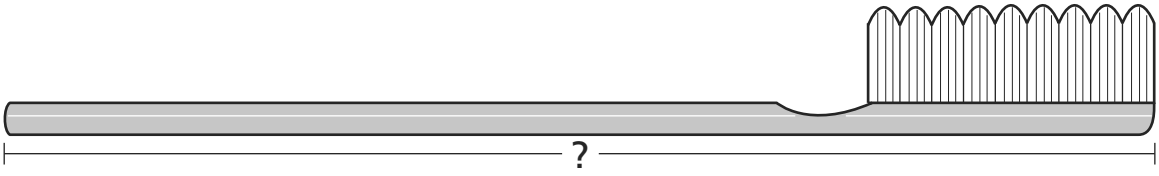
Sample C

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 What number belongs on the line below to make the number sentence true?

$6 \times \underline{\quad ? \quad} = 6$

A 0

B 1

C 12

D 36

2 William spends the coins shown below to buy a cookie.

Quarter Dime Dime Nickel Penny Penny

How much money does William spend?

A $0.42

B $0.47

C $0.52

D $0.57

Go On

3 Dan enters a bike race. The number below is on his shirt.

Which number is **greater** than the number on Dan's shirt?

A 680

B 765

C 697

D 739

4 Mr. Norton ordered 1,398 new books for his bookstore. When the books arrived, he counted only 1,348 new books. By how much is the number 1,398 greater than 1,348?

A 5 ones

B 5 tens

C 5 hundreds

D 5 thousands

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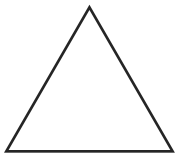
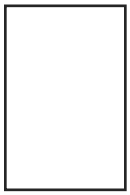
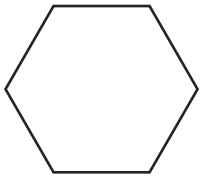
5 Which shape has only 3 angles?

A 

B 

C

D 

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6 On Eric's road trip, he counted 59 sheep and 161 horses. What was the total number of sheep and horses that Eric counted during his road trip?

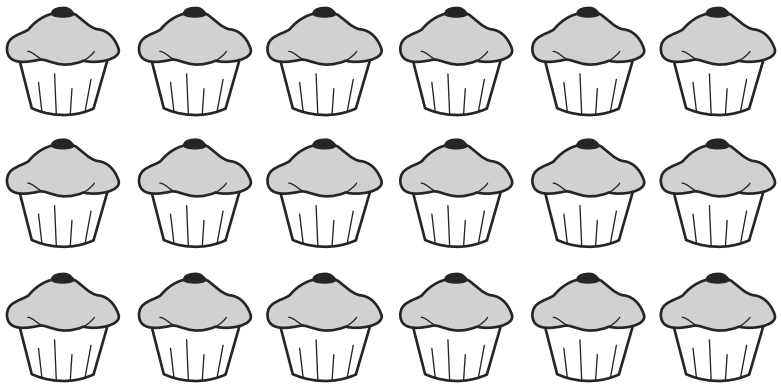
A 110

B 120

C 210

D 220

7 Dana baked the cupcakes shown below.



Which expression can be used to find the total number of cupcakes Dana baked?

A 3×6

B 6×6

C $3 + 6$

D $6 + 6$

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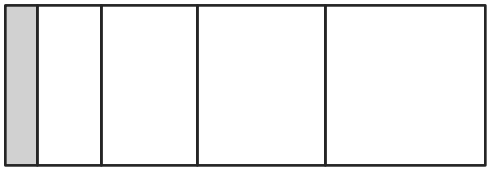
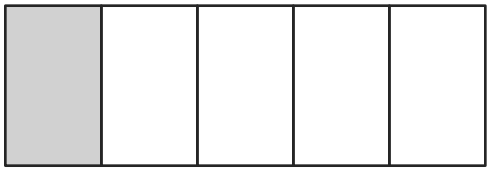
8 Which figure is $\frac{1}{5}$ shaded?

A



B



C

D

9 Eva wrote the number pattern below.

37, 34, 31, **?** , 25

What is the missing number in Eva's number pattern?

A 26

B 28

C 29

D 30

Go On

10 Tony spends $0.61 for an apple. Which group of coins shows exactly $0.61?

A

Quarter Dime Dime Dime Penny

B

Quarter Dime Dime Nickel Penny

C

Quarter Quarter Dime Dime Penny

D

Quarter Quarter Nickel Nickel Penny

Go On

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11 Tara writes the number sentence below.

$$20 + 15 + 30 = 30 + 15 + \underline{\quad ? \quad}$$

What number belongs on the line to make the number sentence true?

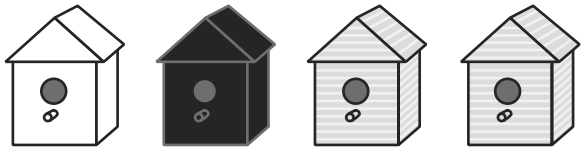
A 20

B 30

C 45

D 65

12 Reggie built the birdhouses shown below.



What fraction of Reggie's birdhouses are black?

A $\frac{1}{2}$

B $\frac{1}{3}$

C $\frac{1}{4}$

D $\frac{1}{5}$

Go On

13 Jasmin wrote the number sentence below.

$____ < 856$

Which number belongs on the line to make the number sentence true?

A 862

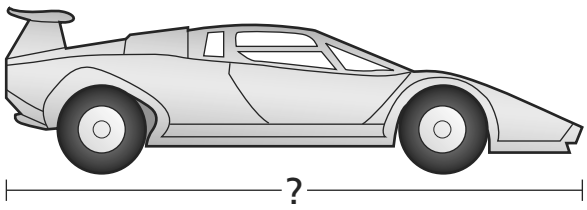
B 914

C 891

D 789

14 Use your ruler to help you solve this problem.

How many inches long is the race car shown below?



A $2\frac{1}{2}$

B 3

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

D 4

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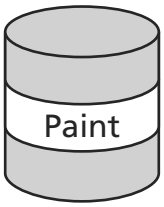
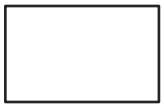
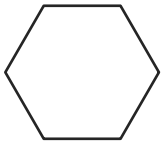
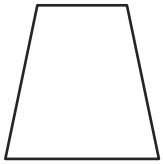
15 Chris has a can of paint like the one shown below.

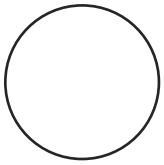


What is the shape of the top of the can of paint?

A 

B 

C 

D 

16 Mark's school has 18 small windows, 49 medium windows, and 52 large windows. **Estimate** how many windows Mark's school has in all.

A 100

B 110

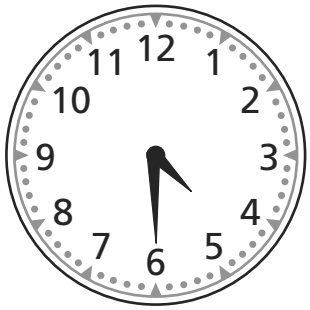
C 120

D 130

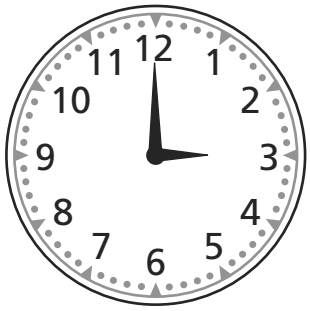
Go On

17 Maya gets on a bus at 3:30 P.M. Which clock correctly shows the time Maya gets on the bus?

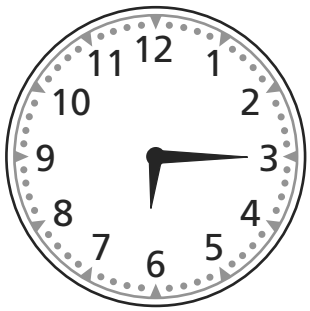
A



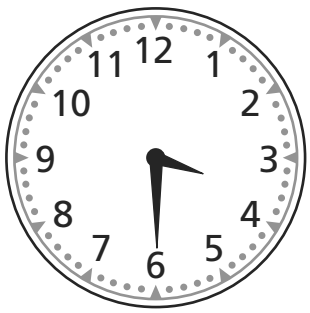
B



C



D



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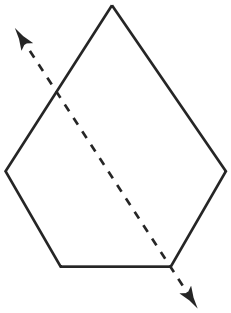
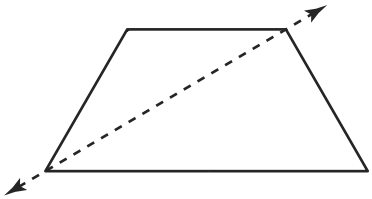
18 Which figure shows a line of symmetry?

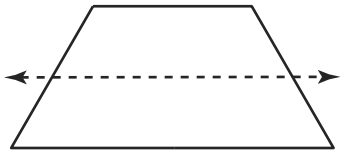
A



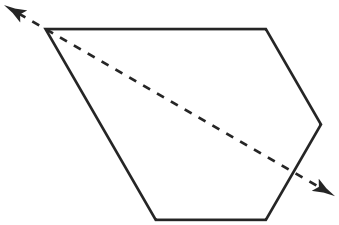
B



C



D



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19 Which unit of measure is **best** to use to measure the length of a crayon?

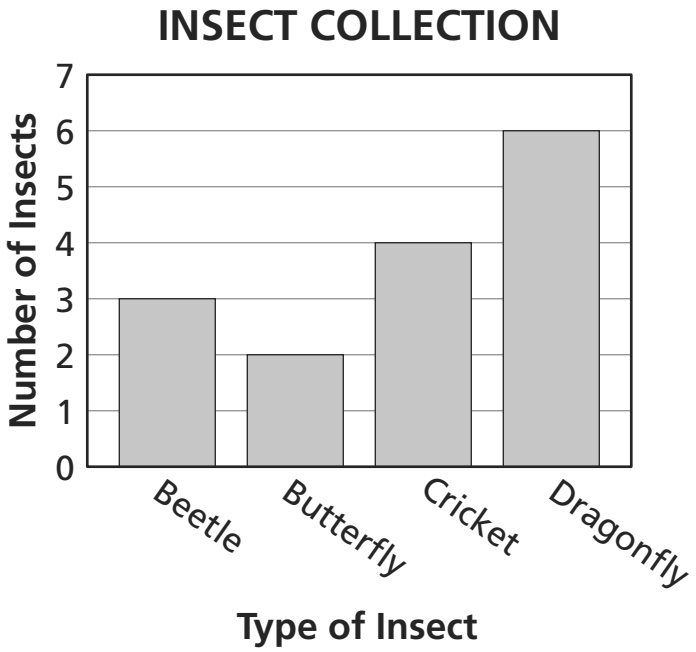
A inch

B foot

C yard

D gram

20 The bar graph below shows the number of each type of insect Ashley has in her insect collection.



What is the total number of insects in Ashley's collection?

A 6

B 9

C 15

D 18

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21 Felix wrote the number sentence below.

$16 \times \underline{\quad ? \quad} = 0$

What number belongs on the line to make the number sentence true?

A 0

B 1

C 4

D 16

22 Ryan makes the pattern of triangular shapes shown below.

Row 1	△ △ △
Row 2	△ △ △ △ △ △
Row 3	△ △ △ △ △ △ △ △ △
Row 4	?
Row 5	△ △ △ △ △ △ △ △ △ △ △ △ △ △ △

How many triangular shapes should there be in **Row 4** in Ryan's pattern?

A 9

B 10

C 11

D 12

Go On

23 Which set of numbers has **only** even numbers?

A 7, 9, 11, 13

B 4, 7, 9, 10

C 8, 9, 10, 11

D 6, 10, 14, 18

24 Which two number sentences below have the same answer?

$2 \times 8 = \underline{\ ?\ }$
$2 \times 9 = \underline{\ ?\ }$
$3 \times 7 = \underline{\ ?\ }$
$4 \times 4 = \underline{\ ?\ }$

A $2 \times 8 = \underline{\ ?\ }$ and $4 \times 4 = \underline{\ ?\ }$

B $2 \times 8 = \underline{\ ?\ }$ and $3 \times 7 = \underline{\ ?\ }$

C $2 \times 9 = \underline{\ ?\ }$ and $4 \times 4 = \underline{\ ?\ }$

D $2 \times 9 = \underline{\ ?\ }$ and $3 \times 7 = \underline{\ ?\ }$

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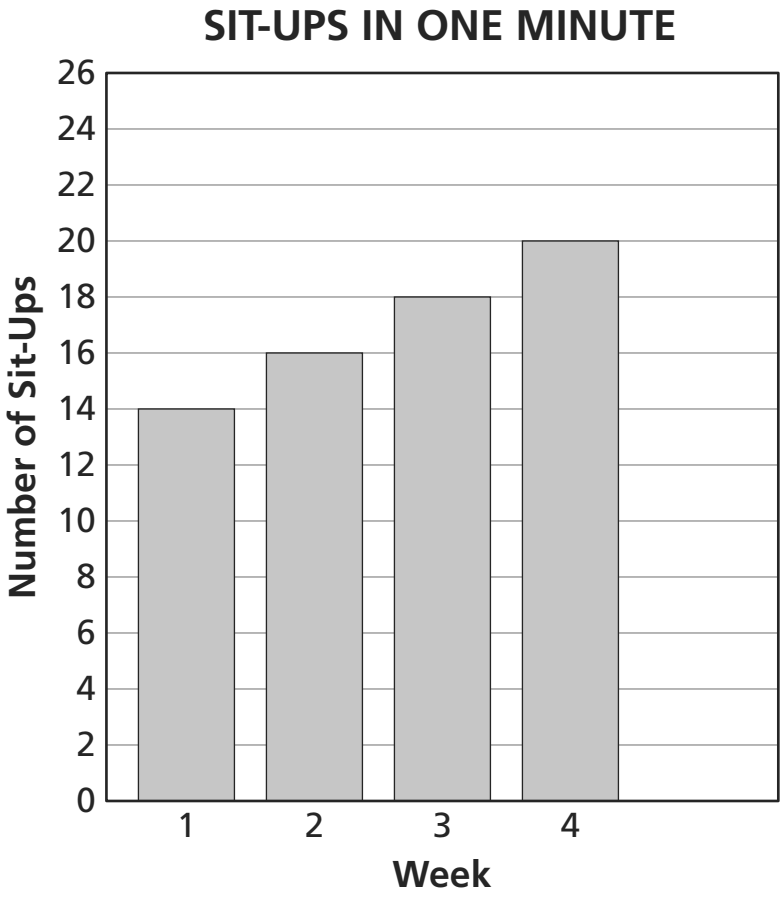
25 Gary is practicing sit-ups. The bar graph below shows the number of sit-ups he can complete in one minute during a four-week period.



If the pattern continues for one more week, how many sit-ups will Gary be able to complete in one minute in **Week 5**?

A 20

B 22

C 24

D 26

STOP

Grade 3

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