Mathematics
Book 3

Grade 4

March 6–10, 2006
Name ____________________________
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 writing your response.
- Be sure to show your work when asked. You may receive partial credit if you have shown your work.

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.
Last year, Mr. Madden drove his car 4,687 miles. This year, he drove 3,109 miles. How many more miles did Mr. Madden drive last year than he drove this year?

_Show your work._

_Answer_ _________________ miles
Troy is exactly 3 years younger than Nicole. Nicole is 12 years old today. How old will Troy be in 2 years?

*Show your work.*

*Answer* ________________ years old
The Kent County Airport has three parking lots.

- Lot A has 430 parking spaces.
- Lot B has 150 fewer parking spaces than Lot A.
- Lot C has 380 more parking spaces than Lot A.

What is the total number of parking spaces at the airport?

**Show your work.**

**Answer** ________________ parking spaces
Ms. Ames put tiles on the wall of her kitchen. She made 12 rows of tiles, with 20 tiles in each row. She used 188 yellow tiles. The rest of the tiles were blue. How many blue tiles did Ms. Ames use?

>Show your work.

Answer _______________ blue tiles
Mr. Marvin spent $54.10 on pants and shirts. He gave the cashier $60.00. How much money should Mr. Marvin receive in change?

*Show your work.*

*Answer $ ________________*
Jeremy writes the number pattern below.

3, 9, 15, 21, 27, ?

**Part A**

What is the next number in the pattern?

*Answer* ________________

On the lines below, describe Jeremy’s pattern.

____________________________________________________________________

____________________________________________________________________

____________________________________________________________________

____________________________________________________________________

**Part B**

On the lines below, write a different set of numbers that uses the same rule as Jeremy’s pattern. Do not use any of the numbers Jeremy wrote.

*Pattern* ______ , ______ , ______ , ______
Alison used three different shapes to draw Figure A below.

**FIGURE A**

1  2  3

**Part A**

What are the names of the three shapes?

*Shape 1 __________________*

*Shape 2 __________________*

*Shape 3 __________________*

**Part B**

Based on the number of sides, what type of polygon is Figure A?

*Answer __________________*
The pictograph below shows the number of butterflies in four different collections.

**BUTTERFLY COLLECTIONS**

<table>
<thead>
<tr>
<th>Collection</th>
<th>Number of Butterflies</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>![Butterfly Icon]</td>
</tr>
<tr>
<td>B</td>
<td>![Butterfly Icon]</td>
</tr>
<tr>
<td>C</td>
<td>![Butterfly Icon]</td>
</tr>
<tr>
<td>D</td>
<td>![Butterfly Icon]</td>
</tr>
</tbody>
</table>

**KEY**

![Butterfly Icon] = ? Butterflies

**Part A**

There are 20 butterflies in Collection A. How many butterflies does each butterfly picture in the key represent?

**Answer** ________________ butterflies

On the lines below, explain how you found your answer.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
Part B

How many more butterflies are in Collection B than in Collection C?

Show your work.

Answer __________________ butterflies
A dolphin can swim 22 miles in 1 hour. A minke whale can swim 15 miles in 1 hour. How many miles farther can a dolphin swim than a minke whale in 6 hours?

Show your work.

Answer ____________ miles