

Cover Page of Exam

**Mathematics Assessment
Collaborative
Grade 3
Performance Assessment
Spring 2001**

District's Student Id #



To be complete by official scorer

MAC ID # _____

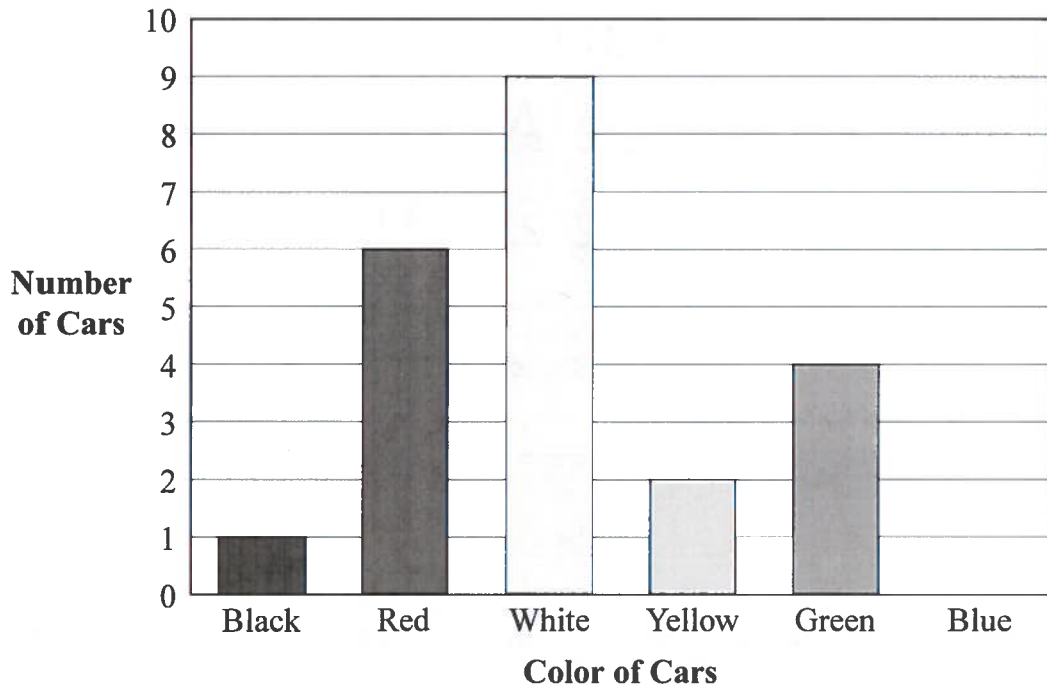
	6	6
8		
8		
8		
8		
8		
Total		

Car Colors

This problem gives you the chance to:

- complete and interpret a bar graph
-

Debbie carried out a survey of the colors of cars that passed her house. Most of the results of her survey are shown in the graph below.



1. The graph is not yet finished.
As Debbie carried out her survey, three blue cars passed the house.
Show this result on the graph above.

2. Debbie writes a report based on her survey.
Use the graph to fill in the blanks below.

What color car did she see most often? _____

What color car did she see least often? _____

Only _____ yellow cars passed the house.

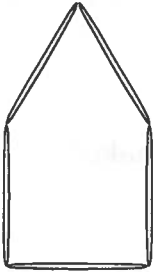
There were _____ more red cars than black cars.

Toothpick Houses

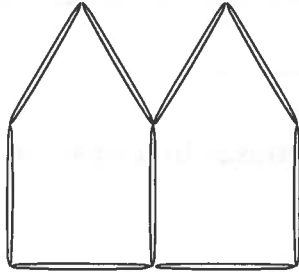
This problem gives you the chance to:

- find a pattern in a sequence of diagrams
 - use the pattern to make a prediction
-

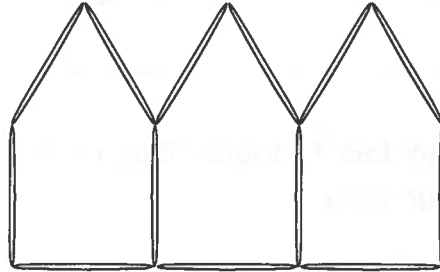
Lindsay uses toothpicks to make houses in a row.



1 house
5 toothpicks



2 houses
9 toothpicks



3 houses
13 toothpicks

Five toothpicks are needed to make one house; nine toothpicks are needed to make two houses; and thirteen toothpicks are needed to make three houses.

1. Draw a diagram to show four houses in a row.

2. Lindsay makes a table to show the number of toothpicks needed to make different numbers of houses in a row.

Number of houses	1	2	3	4	5	6
Number of toothpicks	5	9	13			

How many toothpicks are needed to make four houses in a row?

Write your answer in Lindsay's table.

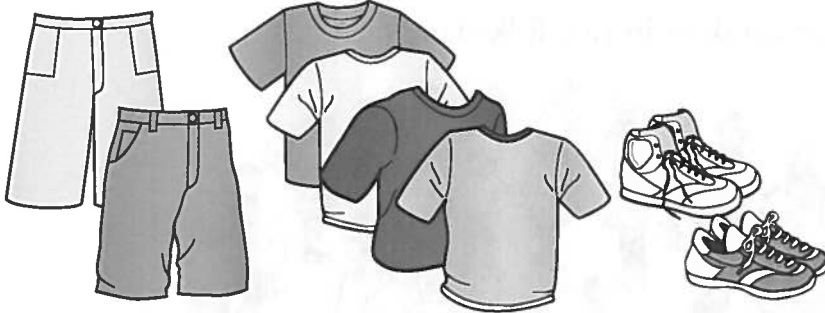
3. How many toothpicks are needed to make six houses in a row?
Explain how you figured this out.

4. Lindsay has 33 toothpicks. How many houses in a row can she make?
Show your work.

Joel's New Clothes

This problem gives you the chance to:

- apply numbers to a practical money situation
-



Joel is going on vacation.

He wants to buy some new clothes for the trip.

He wants: **two pairs** of shorts costing \$20 a pair;

four T-shirts costing \$10 each;

two pairs of tennis shoes costing \$50 a pair.

How much money will Joel need to buy all of these clothes?

\$ _____

Explain how you figured this out.

Children Dancing

This problem gives you the chance to:

- use a good strategy to estimate a number
 - explain your method
-

The picture shows some children in two folk-dancing rings.



1. How many children are there in the two rings? Draw a circle around the best answer.

Less than 20

About 20

About 40

About 60

About 80

About 100

2. About how many arms do the children have in all? _____

Explain how you got your answer.

3. About how many toes do the children have in all?

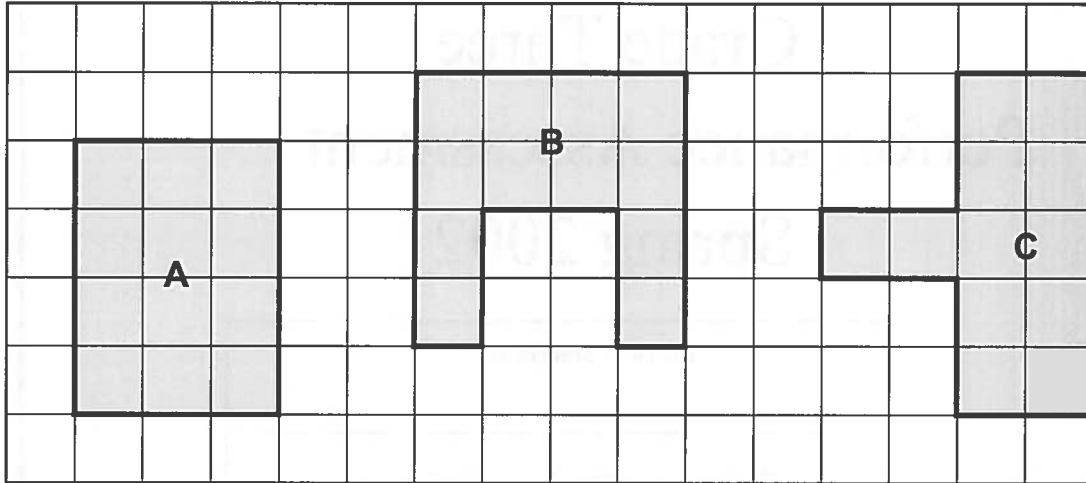
I think there are about _____ toes because _____

Shaping Up

This problem gives you the chance to:

- figure out the area and perimeter for three geometric shapes
- explain which perimeter is largest and which is smallest

Here are three shapes.



On the grid above, each small square is 1 unit long and 1 unit wide.

1. Find the area of each of the three shapes shown above.

The area of shape A is _____ square units.

The area of shape B is _____ square units.

The area of shape C is _____ square units.

2. Which of the three shapes has the largest perimeter? _____

Which of the three shapes has the smallest perimeter? _____

Explain your answers.

Mathematics Assessment Collaborative

Grade Three

Performance Assessment

Spring 2002

District's Student ID #

(Option: District May Use a Label Here)

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MAC ID # _____

	Score	Score Chk
Task 1 Calendar (8)	_____	_____
Task 2 Flowers (8)	_____	_____
Task 3 Math Shapes(10)	_____	_____
Task 4 Get Clued Up (7)	_____	_____
Task 5 Spring Flowers (7)	_____	_____
Total (40)	_____	_____