

MR

436

# Direct Mathematics Assessment

STUDENTS DO NOT WRITE IN THIS AREA

ROUND 1

T: R: T:



MIG  
ACM

- LE
- TL
- AI

Your teacher will read the entire test to you before you  
Do not use a calculator on this assessment.

1. The Smith family collects stamps from around the world. They have 75 stamps from Canada, 198 stamps from Mexico, 17 stamps from Japan, 1,923 stamps from England, and 35 stamps from Iceland.

a. How many more stamps did the Smiths have from England than from Mexico? Show how you found your answer.

b. How many stamps did they have from all of the countries? Show how you found your answer.

Development toward proficiency of basic skills. (a and b)

1,923 - 198 = 1,725  
 1,923 England  
 - 198 Mexico  
 -----  
 1,725

1,923 England  
 198 Mexico  
 17 Japan  
 35 Iceland  
 -----  
 2,222 I added

There is 1,725 more stamps from England

c. If the Smith family tripled their stamps from Japan, how many stamps would they have from Japan? Show how you found your answer.

d. If the Smiths put the same number of stamps from Iceland on each of five pages, how many of these stamps are on each page? Show how you found your answer.

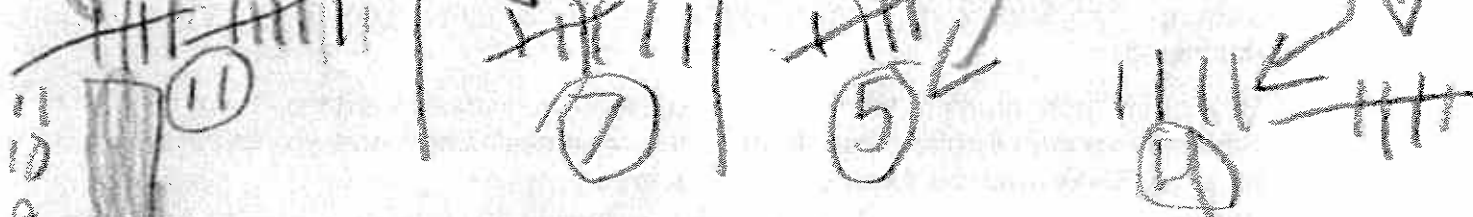
17 Japan  
 + 17 Japan  
 -----  
 34  
 I added

35 Iceland  
 -----  
 40  
 There would be 40 stamps on each page

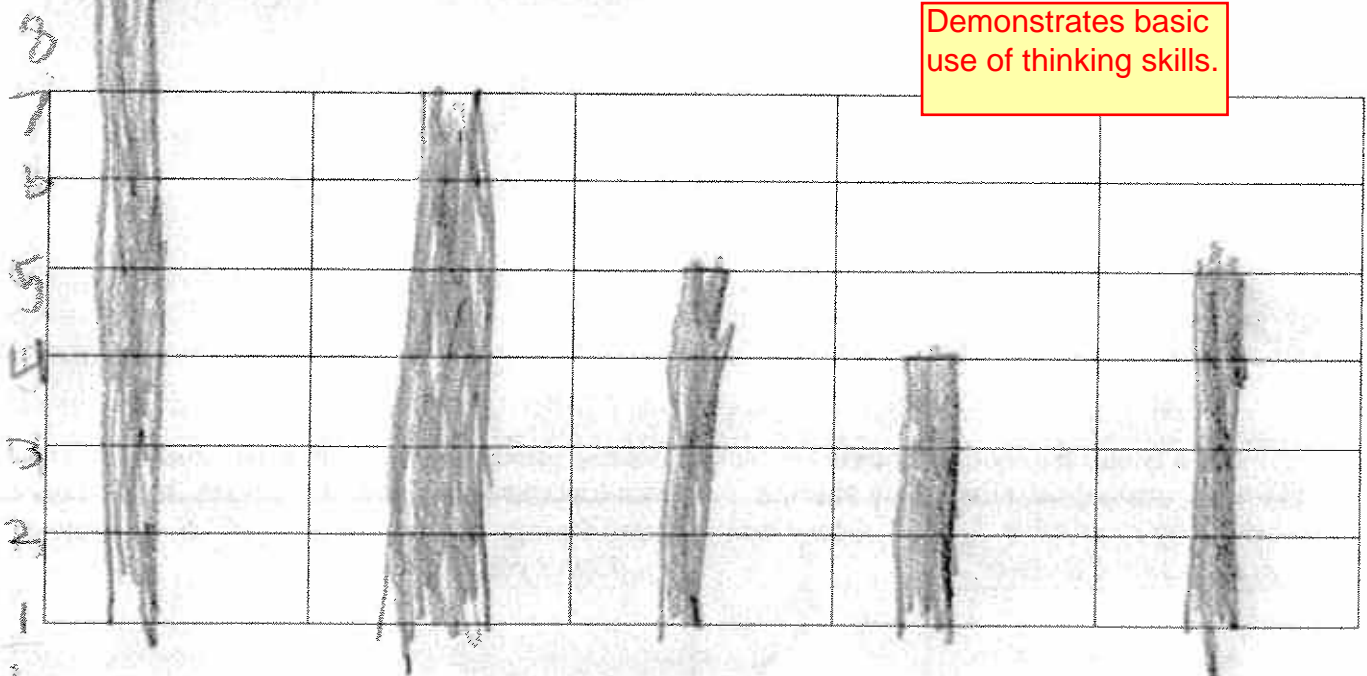
2. The 4<sup>th</sup> grade students in Mrs. Green's class went to an Idaho Historical Museum. Each student's favorite exhibit at the museum is:

Native Americans	Miners	Native Americans	Settlers
Native Americans	Explorers	Explorers	Native Americans
Explorers	Native Americans	Settlers	Settlers
Missionaries	Missionaries	Miners	Explorers
Miners	Explorers	Settlers	Settlers
Native Americans	Native Americans	Missionaries	Missionaries
Explorers	Settlers	Explorers	Native Americans
Explorers	Settlers	Native Americans	Miners
Native Americans	Native Americans	Explorers	Missionaries

a. Organize the data from the chart.



b. Complete the graph below using the class information.



Demonstrates basic use of thinking skills.

c. Using the data from the graph, write two math statements that are true.

1. Native Americans are the most  
 2. Missionaries and Settlers are tied

3. One day John saw 9 caterpillars on his tree. The next day he saw 18 caterpillars. The third day he saw 27 caterpillars. This pattern continued for the next 2 weeks.

a. Complete the chart (table).

Day	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Number of Caterpillars	9	18	27	36	45	54	63

b. How many caterpillars will John see on day ten?

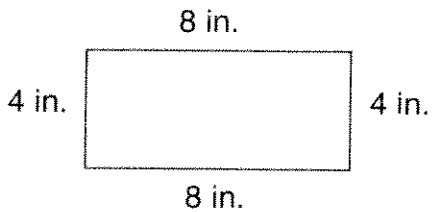
100

c. What is the rule for the pattern?

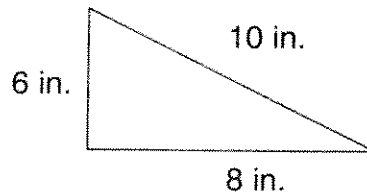
add 9

Limited structure and process development.

4. Shape A



Shape B



a. What is the perimeter of each shape?

24 and 24

Limited mathematical vocabulary.

b. What attributes of these two shapes are the same?

They both make 24

c. What attributes of these two shapes are different?

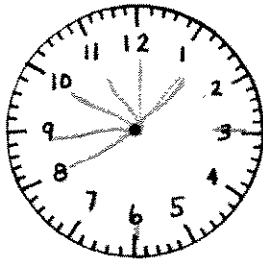
They are different numbers

5. A zookeeper at the Boise Zoo followed this schedule:

Start Time	Finish Time	Activity
8:30 A.M.	10:15 A.M.	Feeding animals
10:15 A.M.	10:30 A.M.	Morning break
10:30 A.M.	12:00 P.M.	Cleaning cages
12:00 P.M.	1:00 P.M.	Lunch
1:00 P.M.	2:15 P.M.	Leading tours
2:15 P.M.	2:30 P.M.	Afternoon break
2:30 P.M.	4:30 P.M.	Conducting animal shows

10:15  
8:30  
2:35

Frequent errors.



- a. How much time did the zookeeper spend at the zoo altogether?  
Show how you found your answer.

1 hour and 20 min

10  
10  
12

- b. How long does it take the zookeeper to feed the animals each morning?  
Show how you found your answer.

2 hours and 15 min

2  
4  
10:2

Limited use of problem-solving strategies.

- c. The zookeeper arrives at 8:30 A.M. It takes her 40 minutes to drive to work. What time does she have to leave home?  
Show how you found your answer.

she arrives at 9:20