

MR

415

Direct Mathematics Assessment

STUDENTS DO NOT WRITE IN THIS AREA

ROUND 1

R

T: ___ R: ___

T: ___

[Empty box for student information]

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IIG
CM

- LEP
- TIA
- ADI

Your teacher will read the entire test to you before you begin.
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.

$$\begin{array}{r}
 198 \\
 + 1,923 \\
 \hline
 2,121
 \end{array}$$

Student demonstrates difficulty with basic mathematical concepts.

$$\begin{array}{r}
 198 \\
 + 1,923 \\
 \hline
 2,121
 \end{array}$$

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.

$$\begin{array}{r}
 17 \\
 \times 3 \\
 \hline
 51 \\
 + 51 \\
 \hline
 51
 \end{array}$$

35 From Iceland

2. The 4th 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.

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- b. Complete the graph below using the class information.

Minimal evidence of understanding of situation.

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

$$\begin{array}{r} 3 \\ 3 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 5 \\ - 5 \\ \hline 0 \end{array}$$

Inappropriate processes.

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).

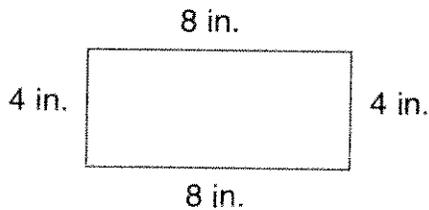
Day	Day 1	Day 2	Day 3	4	5	6	7
Number of Caterpillars	9	18	27	36	45	54	63

b. How many caterpillars will John see on day ten? 12

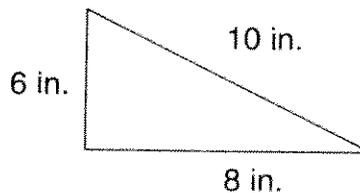
c. What is the rule for the pattern? 12

Minimal problem solving strategies.

4. Shape A



Shape B



a. What is the perimeter of each shape?

4, 3

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

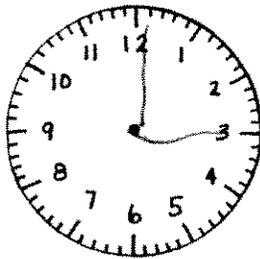
They both have lines

c. What attributes of these two shapes are different?

They share different

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



Lack of process development.

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

twelve; 30

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

ah nineT

- 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.

in an clock