

2007-08 Idaho 6th Grade Direct Mathematics Assessment

	STUDENTS DO NOT WRITE IN THIS AREA
LEP <input type="checkbox"/> LEP1 <input type="checkbox"/> LEPX1 <input type="checkbox"/> LEPX2 <input type="checkbox"/> MIG <input type="checkbox"/> TIA <input type="checkbox"/> NOD <input type="checkbox"/> HML <input type="checkbox"/> SPE <input type="checkbox"/> ACM <input type="checkbox"/> ADM <input type="checkbox"/> AAM <input type="checkbox"/> GAT <input type="checkbox"/>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> ROUND 1 T: _____ R: _____ <input style="width: 60px; height: 20px;" type="text"/> </div> <div style="text-align: center;"> ROUND 2 T: _____ R: _____ <input style="width: 60px; height: 20px;" type="text"/> </div> <div style="text-align: center;"> FINAL <input style="width: 60px; height: 60px; border: 2px solid black;" type="text"/> </div> </div>
It is important that you show or explain how you solved the problems on this assessment. If you use a calculator, show how you set up the math.	

1. The 6th grade students at Grand View Elementary decided to sell the following items at a concession stand during the Little League Baseball games.

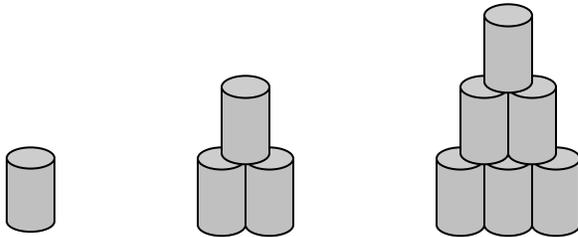
Quantity	Type of Product	Cost
2	Box of Assorted Chips	\$9.95 each box
1	Case of Root Beer	\$7.90 each case
2	Box of Candy Bars	\$10.98 each box
1	Container of Licorice (80 pieces)	\$9.60 each container
1	Case of Spring Water	\$4.95 each case

- a) What was the total cost of the products they had available to sell at the Little League games? *Show or explain your work.*
- b) How much more did the case of root beer cost compared to the case of spring water? *Show or explain your work.*
- c) If 12 students share one container of licorice, how many pieces of licorice would each student receive? *Show or explain your work.*
- d) They sold $\frac{1}{8}$ of the water at the first game and $\frac{3}{8}$ of the water at the second game. What fraction of the water did they sell at the first two games? *Show or explain your work.*

Read problems 2, 3, 4, and 5 on this and the next two pages. Select three problems to solve and answer ALL of the parts of the three problems.
Cross out the one problem that you do not choose to answer.

2. Todd is building a pyramid with pop cans. Continue the pattern started below by drawing figures 4 and 5. *Show or explain your work.*

a) Figure 1 Figure 2 Figure 3 Figure 4 Figure 5



- b) Complete the table below. *Show or explain your work.*

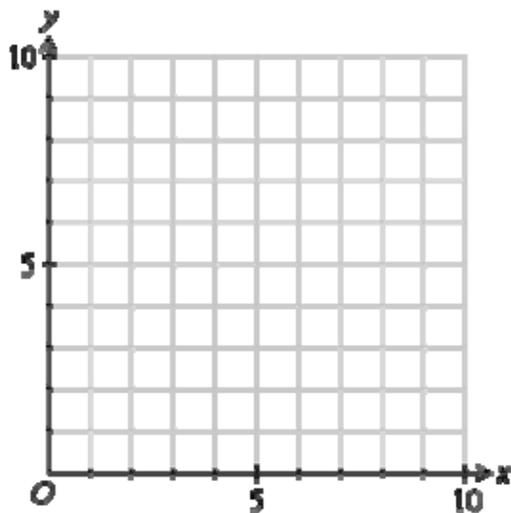
Figure	Total Number of Cans
1	1
2	3
3	_____
4	_____
_____	15
6	_____

- c) How many cans would be in Figure 8? *Show or explain your work.*

- d) Explain the pattern used to complete the table.

3. Use the following grid to answer problem a, b, and c.

1 unit = 1 foot



- a) Plot the following points. Connect your points in order and identify the polygon.
(2, 3), (2, 7), (8, 7), and (8, 3).
- b) What is the perimeter of the polygon you formed? *Show or explain how your work.*
- c) What is the area of the polygon you formed? *Show or explain how your work.*
4. Kara baby-sits her neighbor's baby boy four days a week for 1 hour and 30 minutes each day.
- a) If she begins baby-sitting at 3:45 P.M. what time does she finish baby-sitting each day? *Show or explain your work.*
- b) What is the total time she baby-sits during a week? *Show or explain your work.*
- c) Kara baby-sat one Saturday. She started at 9:20 A.M. and finished at 3:40 P.M. How long did she baby-sit? *Show or explain your work.*

5. Use the information in Mrs. Smith's Grade Book to answer the following questions.

Mrs. Smith's Grade Book

Student	Test 1	Test 2	Test 3	Test 4	Test 5
One	90	100	92	87	96
Two	100	90	87	88	85
Three	86	88	85	83	83
Four	83	86	86	75	85

Find the name of each student by using the following clues.

- a) The **mode** of John's scores is 86. Which student is John? *Show or explain your work.*
- b) The **median** of Maria's scores is 88. Which student is Maria? *Show or explain your work.*
- c) Joe's scores have a 13-point **range**. Which student is Joe? *Show or explain your work.*