

# Solves Problems

This task assesses your **problem-solving** ability. You will show your best work when you:

- *Read the task completely before starting.*
- *Show and explain how you solved this task.*
- *Verify your calculations.*
- *Review the reflections section after you complete the task.*

**Movie Tickets!** Marge and three friends are going to see a new movie on Saturday. They want to spend the least amount of money to buy 4 tickets. The movie they want to see is playing at 3 theaters.

The table below shows the theaters and ticket prices for this movie.



Theater	Ticket Cost	Special Deals
Park	\$5.50	Regular Price Only
Lake	\$6.75	20% off total
Royal	\$7.50	Buy 1 get 2nd half off

## **Solves Problems: Movie Tickets continued...**

Which theater offers the lowest cost for the 4 tickets? Use words and numbers to explain your answer.

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### **Reflections**

My response is good because I ...

- determined a strategy to find the lowest cost for 4 tickets;
- identified the theater offering the lowest cost;
- used words and numbers to clearly explain how I determined which theater offered the lowest cost.

## 2002 Math Power Scoring Guide: Movie Tickets • Solves Problems • Grade 6

	Criteria	4 Points <i>very fine work</i>	3 Points <i>fully acceptable work</i>	2 Points <i>partially acceptable</i>	1 Point <i>response attempted</i>	0 Points <i>none or insufficient</i>
Identifies Solution	Does the student identify Lake Theater as the least expensive option?	<ul style="list-style-type: none"> <li>Correctly identifies Lake Theater as the least expensive option; AND</li> </ul>	<ul style="list-style-type: none"> <li>Correctly identifies Lake Theater as the least expensive option; AND</li> </ul>	<ul style="list-style-type: none"> <li>Identifies Lake Theater as the least expensive option <b>or</b> theater selection is incorrect, but consistent with a minor calculation error; AND</li> </ul>	<ul style="list-style-type: none"> <li>Identifies Park Theater or Royal Theater as the chosen option; AND</li> </ul>	<ul style="list-style-type: none"> <li>No solution is identified; OR</li> </ul>
Supports	Does the student support the solution with accurate calculations for the total price for each theater?	<ul style="list-style-type: none"> <li>Clearly and accurately calculates and labels the total price for each theater <b>and</b> explanation supports a full comparison of totals to arrive at a solution <b>and</b> uses monetary labels correctly in explanation.</li> </ul>	<ul style="list-style-type: none"> <li>Correct price calculations for each theater are given <b>and</b> explanation may describe the process without including a complete comparative statement <b>and</b> may omit use of dollar signs.</li> </ul>	<ul style="list-style-type: none"> <li>Correct price calculations are provided for two of the three theaters <b>and</b> shows a viable process but may be incomplete or include minor flaws.</li> </ul>	<ul style="list-style-type: none"> <li>Correct price is given for one of the three theaters <b>and</b> calculations are flawed; AND</li> </ul>	<ul style="list-style-type: none"> <li>Restates the problem <b>or</b> provides no support <b>or</b> support is insufficient or completely inaccurate; OR</li> </ul>

### Solution Notes:

Lake Theater is the least expensive option.

$$\text{Park Theater} = \$5.50 \times 4 = \$22.00$$

$$\text{Lake Theater} = \$6.75 \times 4 = \$27.00 \quad \$27.00 \times .2 = \$5.40 \quad \$27.00 - \$5.40 = \$21.60$$

$$\text{Royal Theater} = \$7.50 + \$3.75 + \$7.50 + \$3.75 = \$22.50$$