



Girl Scouts
Doing good for others



Answers

Your Girl Scout troop has decided to complete a service project for your local library. Your troop needs to provide a craft for 200, 5-6 year olds that the library will use during story hour of *The Hungry Hungry Caterpillar*. Your troop has decided to have the kids make these caterpillar pens. It is your job to calculate the cost. Your troop has budgeted \$55 for the project. Can the troop afford this? Use the table below to help figure the cost.

To learn more about the Girl Scouts visit *Girl Scouts of the Western Reserve, Inc. Girl Scouts of North East Ohio. 345 White Pond Drive. Akron OH 44320-1155*
www.girlscoutswr.org

Item	Number of items per pen	Number of items for 200 crafts (Multiply column 1 by 200)	Number of bags needed (Divide column 2 by the number sold in each bag)	Cost (Multiply the number of bags needed by the cost per bag)
Eyes	2	$200 \times 2 = 400$	$400 \div 100 = 4$	$4 \times \$1.19 = \4.76
Pens	1	$200 \times 1 = 200$	$200 \div 10 = 20$	$20 \times \$0.59 = \11.80
Pompoms	4	$200 \times 4 = 800$	$800 \div 100 = 8$	$8 \times \$3.09 = \24.72
Leaves	1	$200 \times 1 = 200$	$200 \div 25 = 8$	$8 \times \$0.79 = \6.32
Green tape	5 rolls needed	$5 \times \$0.99 = \4.95

To find the total cost for the project add all the costs from the last column together. Can your troop afford the project if the budget is \$55?

Total Cost $\$4.76 + \$11.80 + \$24.72 + \$6.32 + \$4.95 = \52.55
Yes, the troop can afford the project.

5-7 **Benchmark:** Communicate mathematical thinking to others and analyze the mathematical thinking and strategies of others

