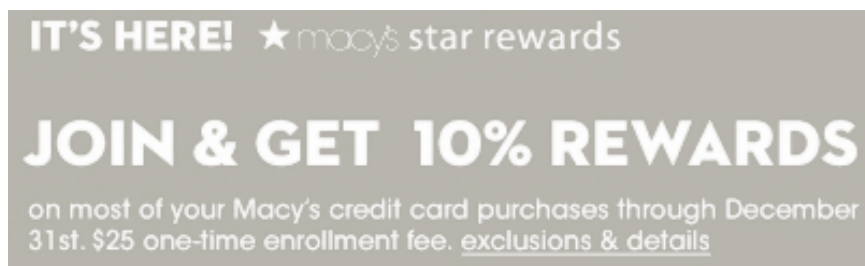


Macy's Star Rewards



The image was found on <http://www1.macys.com/> & in stores early September of 2014.

Wow look at this deal at Macy's. For \$25 I can join Macy's Star Rewards program. I get 10% back in rewards for every dollar I spend. Its pretty cool that Macy's gives part of that \$25 to charity. Should I do it? It seems like free money (or clothes) just for shopping at Macy's.

1. Lets think about how much you earn in rewards based on how much you spend. Find the rewards earned for various amounts spent. Don't forget to factor in the \$25 enrollment fee.
2. Write a rule that gives the final amount earned at Macy's after receiving the points and paying the \$25 registration fee for any amount spent at Macy's. Explain what each variable in your rule represents.
3. Use your rule to find the amount of money/points at Macy's you will earn if you spend:
 - a. \$400
 - b. \$1000
 - c. \$100
4. Use your rule to find the amount of money you must spend to come out:
 - a. \$200 ahead
 - b. \$550 ahead
 - c. \$1000 ahead
5. When is this Macy's deal a good deal for consumers? When is not? How can you communicate this with words, algebra, tables or graphs?