

R6: DUELING DISCOUNTS WORKSHEET

1. (Discussion) Which do you think is better, \$20 off or 20% off? Explain. *Answers will vary.*
Through this exploration students should conclude that if the item is less than \$100, then \$20 off is a better deal; if the item is over \$100, then 20% off is a better deal; if the item is exactly \$100, then they are both equivalent deals. However, at this point, accept all conjectures.



Use the images at <http://threeacts.mrmeyer.com/duelingdiscounts/> to help you complete this analysis.

2. Perform calculations and compare prices. Highlight the better discount for each item. What tools are appropriate to make these computations?
3. Explain how you calculated \$20. *Total minus \$20.*
4. Explain how you calculated 20%. *Total times 0.2.*
5. Under what conditions do you think that 20% off is better than \$20 off? Explain.
Same explanation as problem 1 above.

Explore further.

6. Under what conditions is 30% off better than \$30 off? Explain.
If the item is over \$100, then 30% off will be the better deal.
7. Under what conditions is $x\%$ off better than \$ x off? Explain.
If the item is over \$100, then $x\%$ off will be the better deal.