1. The Jackson Jacals and the Westfield Tigers are going to play a best three out of five games baseball tournament. Determine the number of outcomes for the event.
2. Find 4C4
3. There are six positions available in the research department of a software company. Of the applicants, 15 are men and 10 are women.
   1. How many ways could 4 men and 2 women be chosen if each were equally qualified?
   2. What is the probability that five women are selected if the positions are randomly filled?
4. Find 16P5
5. A bag of colored paper clips contains 30 red clips, 22 blue clips, and 22 green clips. If three clips are randomly drawn one at a time, what is p (blue, red, green)?
6. One card is randomly drawn from a standard deck of 52 cards.   
   Find p (heart or red)

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| X = number of TVs | Probability |
| 1 | .18 |
| 2 | .36 |
| 3 | .34 |
| 4 | .08 |
| 5+ | .04 |

1. 1. Show that the probability distribution is valid:
   2. If a household is selected at random, what is the probability that it has fewer than 4 televisions?
2. Is the following a permutation or combination: team captains for the basketball team.