



- 1) Using the drawing above, find the area for each of the following rooms. Show work.
 a) Living Room b) Dining Room c) Hackeysack Room

- 2) If you are to replace the flooring in each of the following rooms, you will order 15% more than you need. Find the total amount of flooring that should be ordered for each of the following rooms. Show work.
 a) Living Room b) Dining Room c) Hackeysack Room

- 3) If the living room is to be carpeted at a materials and labor cost of \$7.25 per square foot materials ordered, and the dining room is to be hardwood floored at a materials and labor cost of \$18.00 per square foot of materials ordered, and the hackeysack room is to have glow-in-the-dark shag carpeting at a material and labor cost of \$6.25 per square foot of materials ordered, how much will be the total cost to put the flooring in all three of these rooms?

- 4) Compare the data of the following brands of popcorn and complete the chart:

Name	# unpopped	# popped	Total	% popped	% unpopped
E-Z	17		100		
Corney Popcorn		88	100		

Ridalls' Famous			100		7%
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b) Which is the best brand?

9) Which is not the worst brand?

- 5) You are a supervisor for Matrex, a garment manufacturer. The sewing machines are old and often break down. The operators can produce an average of 52 shirts per hour when all the machines are operating. The company makes a profit of \$0.50 on each shirt. The owner wants to know how much money is being lost because of downtime. You collect the following data on the four machines for a forty-hour period. How much did the downtime cost the company? Show work.

Machine 1	4.0 hr down
Machine 2	2.5 hr down
Machine 3	3.2 hr down
Machine 4	2.3 hr down

- 6) Suppose you work for Crown Freight Company. You are analyzing the 8-hour work rate of the company's four loading-dock crews. The dock supervisor tells you that it takes about 1/2 an hour for a crew to load each truck. Each employee takes breaks totaling 1-hour during each shift. Organize the information you know and determine how many trucks can be loaded during each 8-hour shift.