Math 4c. Homework 25.

1. In a restaurant, customer can order a cheese platter for $15 or $20. For $15 platter, you can choose 3 different kind of cheese out of 15 and for $20 platter you can choose 5 different kind of cheese. How many different ways are there to create these two cheese platters?

2. I have 5 new books to read during my 5 days' vacation. I want to read 1 book every day. How many different ways are there for me to read these 5 books? How many ways would be there if I would have only a 3 days' long weekend to read them? In this case I will be able to read only 3 books in total.

3. Evaluate:

$a.\ \dfrac{\left(\frac{3}{4}-\frac{1}{3}\right):\frac{5}{7}}{\left(\frac{1}{4}+\frac{2}{3}\right)\cdot\frac{6}{11}}$; $b.\ \dfrac{\frac{3}{20}\cdot\left(\frac{7}{12}-\frac{1}{2}\right)+\frac{79}{80}}{\frac{13}{24}:\left(\frac{7}{12}+\frac{1}{2}\right)-\frac{1}{4}}$; $c.\ \dfrac{\left(3+\frac{7}{11}\right)\cdot\frac{1}{4}-\frac{1}{22}}{\left(5-\frac{3}{11}\right):13+\frac{1}{2}}$

4. I need to put square tiles on the floor of a square room. I know that I can do it without cutting any of the tiles. First, I put tiles along the perimeter of the room, which took me 56 tiles. How many tiles do I need altogether to cover the floor in this room?
5. Using the distributive property factor the common factor out:
   (*example:* $9+3a=3\cdot 3+3\cdot a=3\cdot(3+a)$):
   a) $8+18w=$
   b) $10-12p=$
   c) $33s-11=$
   d) $25a-5b=$
   e) $2x+2=$