like pizza, sandwiches, chicken nuggets, or hamburgers for lunch. She also records if they are in 7th, 8th, or 9th grade. So that she can do this quickly, she is using P=Pizza, S=Sandwiches, C=Chicken Nuggets, H=Hamburgers. She has the following data:

7th Graders	8th Graders	9th Graders
PPSCHSPHCCCHSP CHCSCHSCHCHSPC HSPHCSPHCSPHCS	CHSPHCPSHCHS HCPHHCHHSSSPH PSPPCSHPCCHCS	HSSPPSHSPCHC HSSPCCCSHHSC SPSPCHSCPSPS

Sally created a two-way table below from her survey:

	7th Graders	8th Graders	9th Graders	Totals
Pizza	8	8	8	24
Sandwiches	10	9	13	32
Chicken Nuggets	13	9	8	30
Hamburgers	11	12	7	30
Totals	42	38	36	116

Using the TABLE above to answer the questions below.

1. Of all the students who prefer pizza, what percent are 8th graders?
$\frac{8}{24} = 0.\overline{3}$ $33.\overline{3}\%$

2. Of all the students surveyed, what percent of students are 7th graders AND prefer hamburgers?
$\frac{11}{116} = 0.0948$ 9.5%

3. Of the 7th graders, what percent prefer sandwiches?
$\frac{10}{42} = 0.2380$ 23.8%

4. Of all the students who prefer hamburgers, what percent are 9th graders?
$\frac{7}{30} = 0.23\overline{3}$ $23.\overline{3}\%$

5. Of all the students surveyed, what percent of the students are 8th graders AND prefer pizza?
$\frac{8}{116} = 0.0689$ 6.9%

6. Of the 8th graders, what percent prefer chicken nuggets?
$\frac{9}{38} = 0.2368$ 23.7%

7. Of all the students surveyed, what percent of students are 9th graders AND prefer sandwiches?
$\frac{13}{116} = 0.1120$ 11.2%

8. Compare #4 to #8. Are your percentages the same? Why or why not?
#4 to #8 NO they have different groups (totals) that they are looking at.