

2013 World consumption of petroleum-based energy, according to the U.S. Energy Information Administration. Population information based on the Population Reference Bureau

Region	Population (millions)	Percentage of World Population	Consumption of petroleum (in thousands of barrels per day)	Percentage of world's petroleum consumption
Asia & Oceania	3,538	49.57%	30,094	32.97%
Middle East (western Asia)	251	3.52%	8,080	8.85%
Africa	1,100	15.41%	3,601	3.94%
Eurasia & Northern Europe	550	7.71%	4,689	5.14%
Western Europe	740	10.37%	14,291	15.65%
Central & So. America	606	8.49%	7,086	7.76%
No. America (including US)	352	4.93%	23,448	25.69%
<i>(United States alone)</i>	<i>316.2</i>	<i>4.43%</i>	<i>18,961</i>	<i>20.77%</i>
World Total	7,137		91,289	

2) Form student groups to represent each geographic region (note that you'll need to combine regions (e.g., Middle East & Africa) for smaller class sizes).

For a class size of ...
form groups of ...

Region	Percent of World's population	Class size: 30	Class size: 20	Class size: 15	Class size: 10
Asia & Oceania	50.00%	15	10	7.5	5
Middle East	3.50%	1		0.5	
Africa	15.50%	5	4	2.5	2
Eastern Europe & former USSR	7.50%	2	1.5	1	0.5
Western Europe	10.00%	3	2	1.5	1
Central & So. America	8.50%	2.5	1.5	1	1
No. America (including US)	5.00%	1.5	1	1	0.5

3) Divide the cookies or other “resource” based on their assigned region’s relative energy (petroleum) consumption. Thus, for the class sizes described above in (2), the distribution would be as follows:

For a class of ...,
the number of cookies would be...

<i>Region</i>	<i>Percent of World's petrol consumption</i>	<i>Class size: 30</i>	<i>Class size: 20</i>	<i>Class size: 15</i>	<i>Class size: 10</i>
Asia & Oceania	32.97%	10	6.5	5	3.25
Middle East	8.85%	2.5	1.75	1.25	1
Africa	3.94%	1	0.75	0.5	0.5
Eastern Europe & former USSR	5.14%	1.5	1	0.75	0.5
Western Europe	15.65%	4.75	3.25	2.5	1.5
Central & So. America	7.76%	2.5	1.5	1	0.75
No. America (including US)	25.69%	7.75	5.25	4	2.5