HO 3

The Seismic News

Group Member Names: _____

Instructions:

1. Each group member will read a different news articles related to an earthquake that has occurred somewhere on earth and highlight the **quantitative** and **qualitative data** related to the earthquake.
2. Each group member will discuss their findings with the others.
3. When everyone has finished, the group will create a table to display the data that was identified.

Answer the following questions related to the data:

4. Compare the data for the different earthquakes. What differences do you notice?

5. Describe the factors that could explain these differences.

Earthquake Data Table:

The Seismic News - Key

Quantitative Data refers to numbers and comparable events. **Qualitative** refers to inferences made from data. Damage is qualitative in that it requires a deduction or subjective evaluation based on observations. The following data can be derived from the ***Seismic Times*** articles.

Location	Date	Magnitude	Deaths/Injury	Damage
New Zealand	**Sept. 10 2010**	**7.0**	**0**	**Significant**
San Francisco, California	**Oct. 17 1989**	**6.9**	**62 deaths**	**Unbelievable damage with extensive collapse of buildings and structures.**
Haiti	**Jan. 10 2010**	**7.0**	**100,000 deaths 3 million injuries**	**Unimaginable, complete.**
Japan	**Jan. 1 2012**	**7.0**	**0**	**Shaking of buildings with insignificant damage.**
Armenian	**Dec. 10, 1988**	**6.9**	**45,000 dead 500,000 injuries**	**Complete destruction of area cities.**
Chile	**Mar. 26 2012**	**7.1**	**3 injured**	**No major damage**

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No deaths reported after powerful quake strikes New Zealand

Written by: [CNN Wire Staff]

Officials declared a state of emergency Saturday, September 10, 2010 after a powerful predawn earthquake struck near Christchurch, New Zealand, sending people into the streets as windows exploded, water mains broke and buildings crumbled.

No deaths were immediately reported.

The Christchurch City Council declared a state of emergency in response to what it called "significant damage," just hours after the 7.0-magnitude earthquake rattled residents.

The order allows authorities to force evacuations and prohibit entry into areas believed unsafe. Officials in Selwyn, a rural district near where the quake hit, also declared a state of local emergency.

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Hospitals Flooded with Injured Victims after San Francisco Earthquake

Written by: [CNN Wire Staff]

On October 17, 1989 an earthquake occurred along the San Andreas Fault, in the city of Loma Prieta near San Francisco, California.

The earthquake had a Magnitude of 6.9 and it is estimated that about 62 people were killed. Most were killed when a double decked freeway in Oakland collapsed. Emergency crews are working to recover bodies from crushed cars caught under the rubble.

By contrast, about 10 months earlier, an earthquake with a similar magnitude of 6.8 occurred in Spitak, Armenia (Soviet Union) killing over 25,000.

Officials in California have reported "unbelievable damage to structures" with collapsed bridges and freeways, fires, shattered buildings, gaping cracks in roads and landslides.

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Haiti Earthquake: Thousands Feared Dead

Written by: [CNN Wire Staff]

January 13, 2010- Haitian President Rene Preval has said thousands of people are feared dead following a huge earthquake which has devastated the country's capital.

The 7.0-magnitude quake, Haiti's worst in two centuries, struck on Tuesday. Prime Minister Jean-Max Bellerive told US network CNN he believed more than 100,000 people had died.

Describing the scene in the capital as "unimaginable", he said: "Parliament has collapsed. The tax office has collapsed. Schools and hospitals have collapsed." The Red Cross says up to three million people are affected.

Stressing a major international relief effort would be needed, the UN Secretary General said the UN would immediately release $10 million pounds (£6.15m) from its emergency response fund.

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New Year's Day Earthquake Rocks Japan

Written by: [AP Wire Staff]

January 1, 2012

A 7.0-magnitude earthquake struck under the sea south of Japan today, shaking buildings in the capital but causing no apparent damage or tsunami. The quake struck near the uninhabited island of Torishima in the Pacific Ocean, about 370 miles south of Tokyo, and its epicenter was about 230 miles below the sea, the National Meteorological Agency said. Buildings in the Tokyo area shook, but no damage or injuries were reported. Express trains in northern and central Japan were suspended temporarily for safety checks but later resumed service. No abnormalities were reported at power plants including the tsunami-crippled Fukushima Daiichi Nuclear Plant which was previously damaged during a March earthquake.

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1988: Death Toll Rises in Armenian Earthquake

Written by: [BBC News Staff]

December 10, 1988-

Up to 45,000 people have died and a further 500,000 are homeless after the devastating earthquake which ripped through Armenia, official figures revealed today.

Rescue work is currently still concentrating on finding any survivors, but hope is waning in Armenia which borders Turkey and Azerbaijan.

The Soviet Union declared today a national day of mourning as the death toll rose and President Gorbachev toured the cities devastated by the earthquake.

The earthquake measured 6.9 on the Richter scale and affected an area 80 kilometers in diameter.

Spitak, a town of 25,000 inhabitants, has been completely destroyed and cannot be rebuilt - With most of Armenia covered in high-rise buildings the consequences have been devastating.

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7.1 Magnitude Earthquake Strikes Central Chile

Written by: [CNN Wire Staff]

26 March 2012

A 7.1-magnitude earthquake hit central Chile on Sunday, injuring three people and prompting emergency officials to order an evacuation along parts of the coast.

There were no immediate reports of major damage. The earthquake struck a few miles north-northwest of Talca, the U.S. Geological Survey said.

No tsunami warning was issued but authorities issued an evacuation order late Sunday as a preventative measure.

Three people were injured as a result of the quake, emergency officials said. One person was in a traffic accident in the Biobio region and two people sustained light injuries when a ceiling collapsed. Talca was one of the cities hit hard by a devastating 8.8-magnitude earthquake in 2010.

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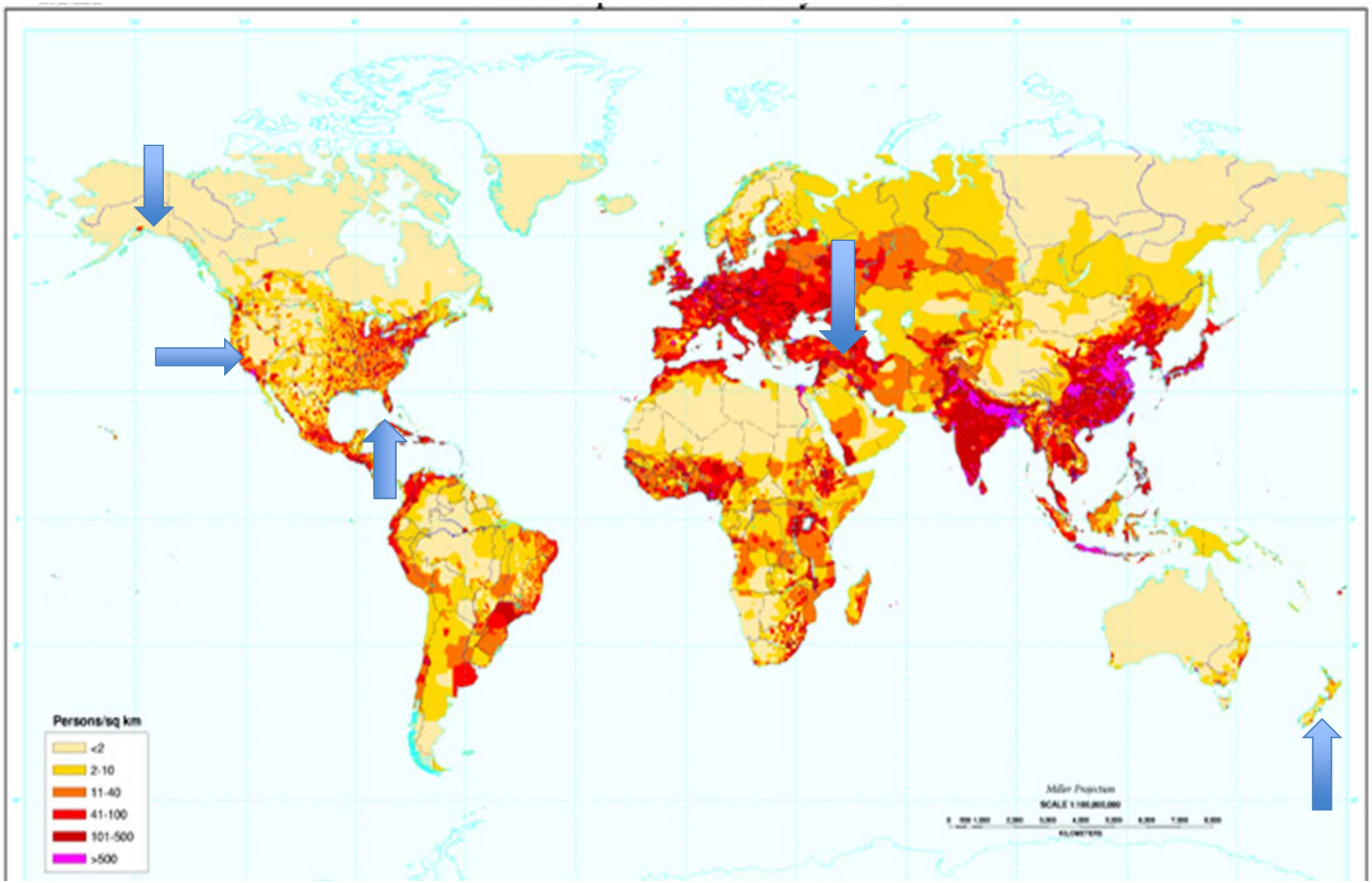
World Population Density with Earthquake Locations