

Name:

Date:

### Earthquake Risk Map

**Purpose:** Using the data below and a map of the United States you will construct an earthquake risk map.

**Materials:** U.S. Map; colored markers or pencils in red, orange, yellow, blue, black

**Procedure:**

1. The table below lists the historically significant earthquakes for each state. Color each state on the map to represent the total number of earthquakes. Use the following color key:

BLUE- 0 to 4    YELLOW- 5 to 9    ORANGE- 10 to 19    RED- 20 or more

State	Abb.	Total number of earthquakes	Number of major/ great earthquakes	State	Abb.	Total number of earthquakes	Number of major/great earthquakes
Alabama	AL	3	0	Montana	MT	10	1
Alaska	AK	53	40	Nebraska	NB	2	0
Arizona	AZ	1	0	Nevada	NV	10	3
Arkansas	AR	6	2	New Hampshire	NH	2	0
California	CA	116	19	New Jersey	NJ	4	0
Colorado	CO	4	0	New Mexico	NM	5	0
Connecticut	CT	2	0	New York	NY	6	0
Delaware	DE	1	0	North Carolina	NC	1	0
Florida	FL	2	0	North Dakota	ND	1	0
Georgia	GA	1	0	Ohio	OH	4	0
Hawaii	HI	16	4	Oklahoma	OK	1	0
Idaho	ID	4	0	Oregon	OR	5	0
Illinois	IL	6	0	Pennsylvania	PA	3	0
Indiana	IN	2	0	Rhode Island	RI	1	0
Iowa	IA	1	0	South Carolina	SC	2	0
Kansas	KS	1	0	South Dakota	SD	2	0
Kentucky	KY	3	0	Tennessee	TN	2	0
Louisiana	LA	1	0	Texas	TX	1	0
Maine	ME	2	0	Utah	UT	2	0
Maryland	MD	1	0	Vermont	VT	1	0
Massachusetts	MA	4	0	Virginia	VA	3	0
Michigan	MI	1	0	Washington	WA	10	1
Minnesota	MN	1	0	West Virginia	WV	1	0
Mississippi	MS	1	0	Wisconsin	WI	1	0
Missouri	MO	3	2	Wyoming	WY	8	0

2. The table also shows how many of the total earthquakes were major or great. Put one black dot for each major/great earthquake in the states that had them.

#### Questions:

1. Which state has had the most earthquakes? \_\_\_\_\_

2. Which state has had the most major/great earthquakes? \_\_\_\_\_

3. What areas of the country have experienced the most earthquakes? The fewest earthquakes?

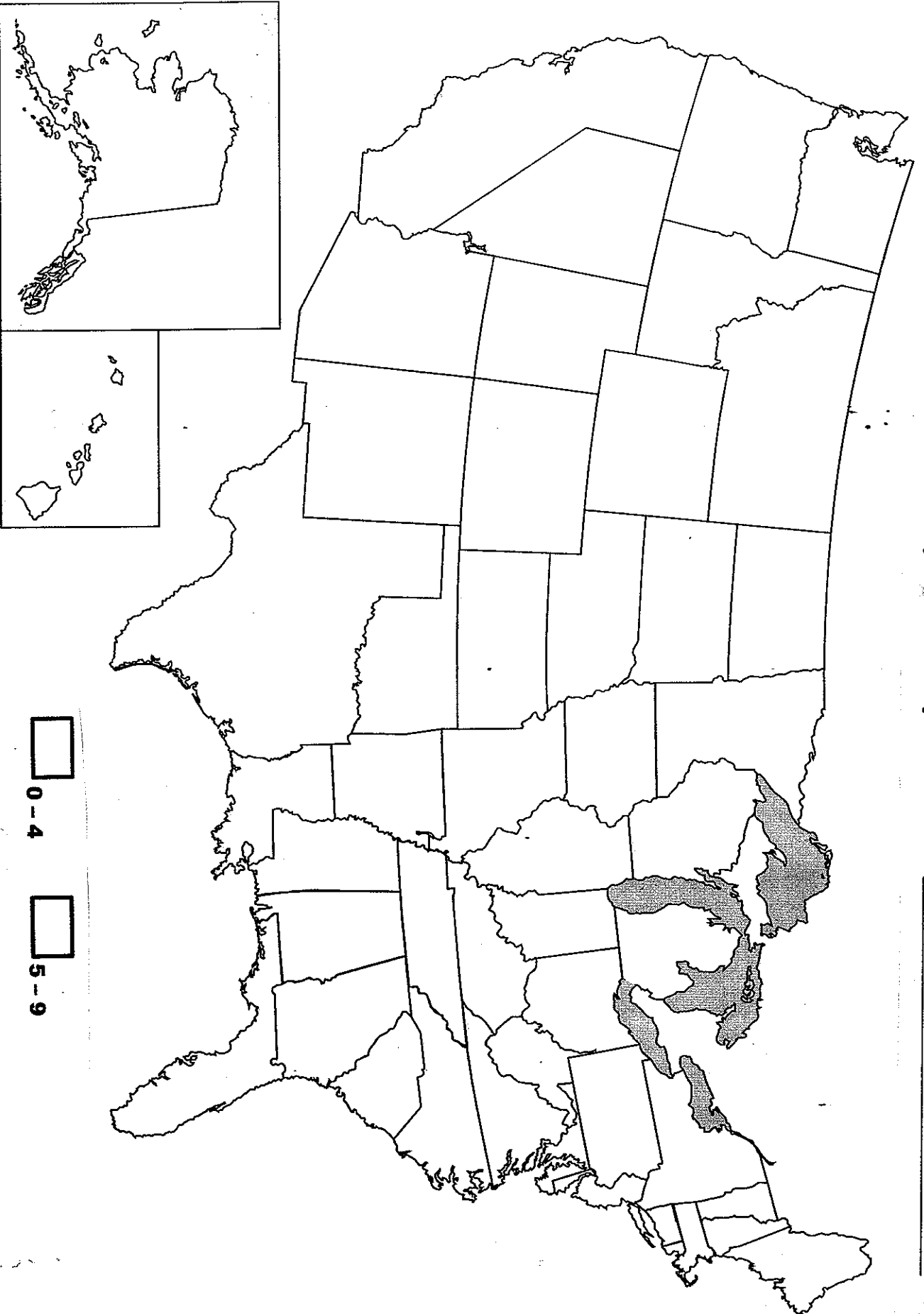
4. Why do you think some areas of the U.S. experience more earthquakes than others?

5. Predict which states are the most likely to experience earthquakes in the future. Explain your reasoning.

6. Suppose you are the CEO of a company that wants to relocate its headquarters to a location that is very unlikely to experience an earthquake. Does the earthquake risk map you created provide enough information to make this decision? Why or why not? Use back of page:

**U.S.A. Earthquake Risk Map**

**Name:** \_\_\_\_\_

☐

0-4

☐

5-9

☐

10-19

☐

20 or more