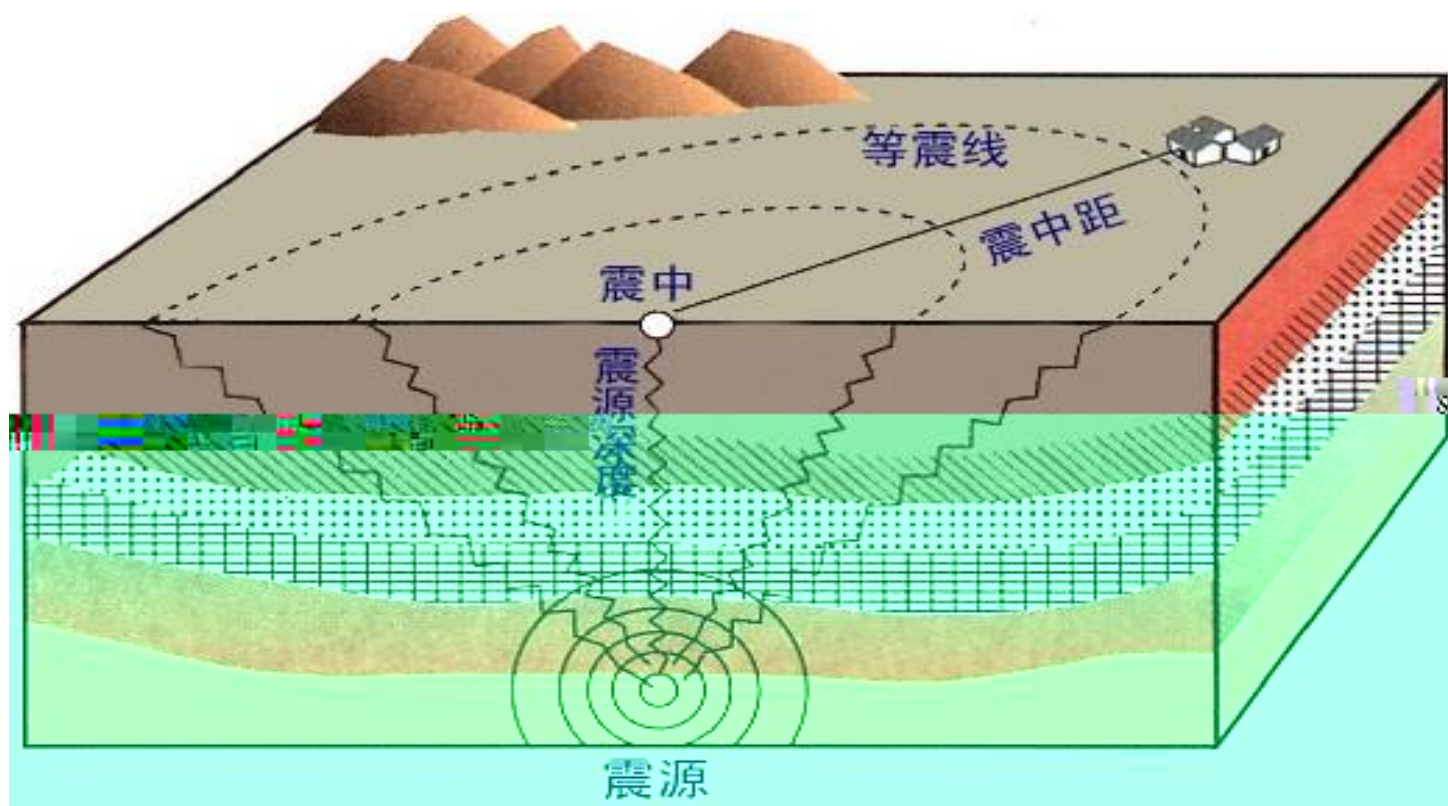


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1.



31.6

Earthquake Severity and Magnitude

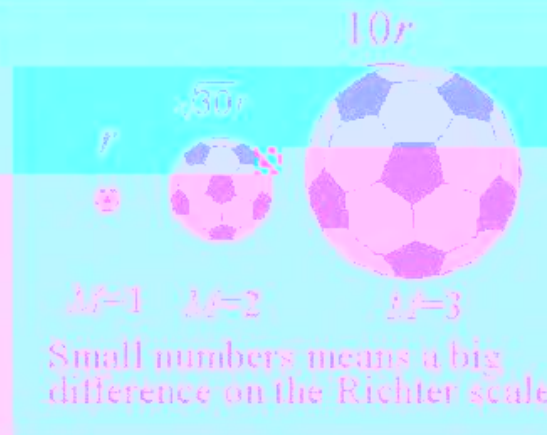
地震的震級和能量

Seismic energy released by an earthquake of magnitude M is given by the following equation:

$$\log E = 11.5 + 1.5M$$

E = energy released in joules
(or $\frac{1}{10}$ of the energy released)

M = magnitude



Magnitude	Equivalent Energy in weight of TNT	Visual Representation
5.5	20,000 tons	(Hiroshima) 1 ×
6.0	120,000 tons	6 ×
7.0	3,600,000 tons	180 ×
7.8	56,000,000 tons	2,800 ×
8.5	112,000,000 tons	5,600 ×

1 ,
2 ,
0.1 ,

30 .
900
1.4

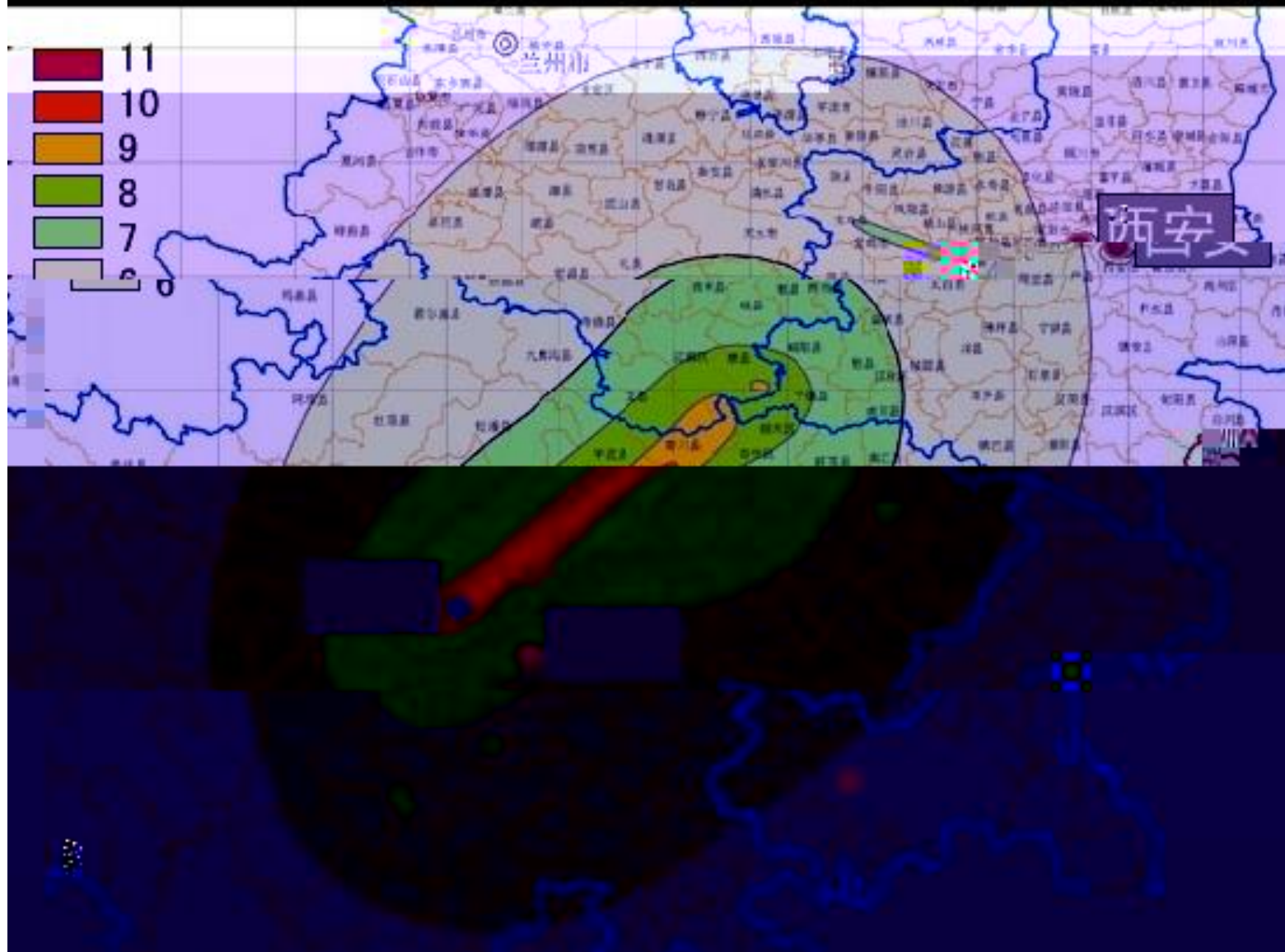
:

5.5 ,

8 =30 7 =900 6 =27000 5
8 , 5600

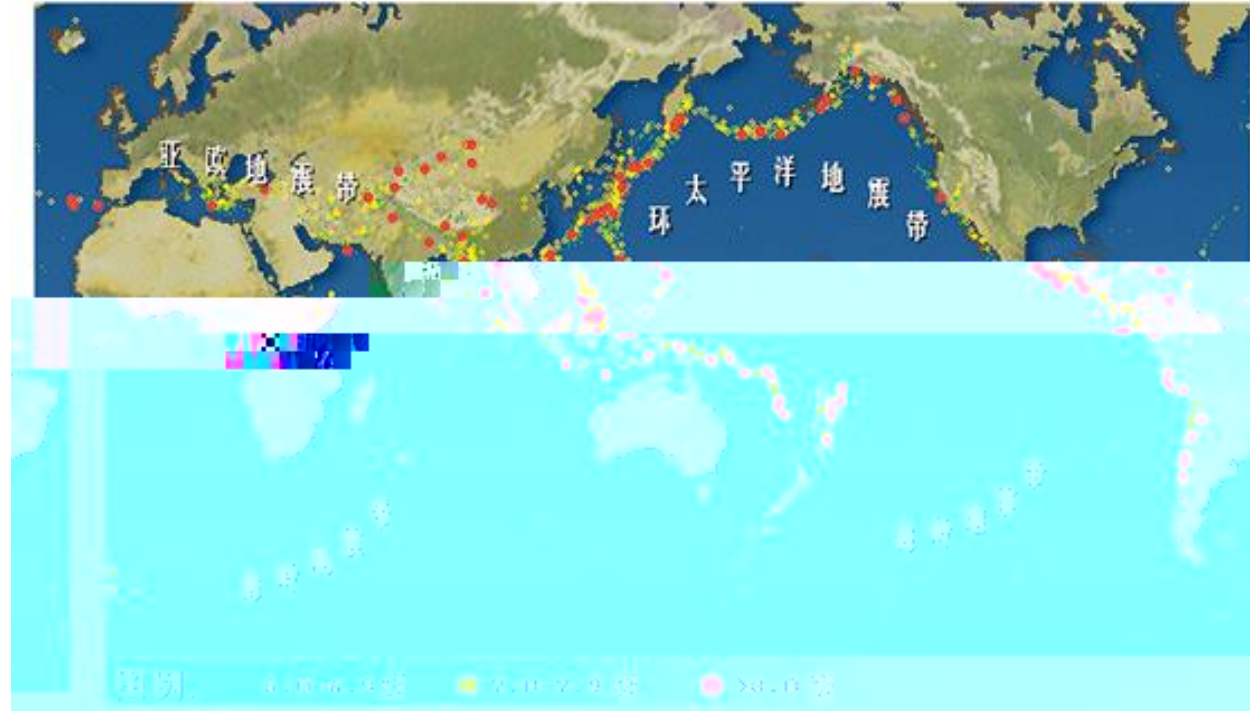
8	1	2
7	10	20
6	100	200
5	1000	2000

汶川8.0级地震烈度分布图

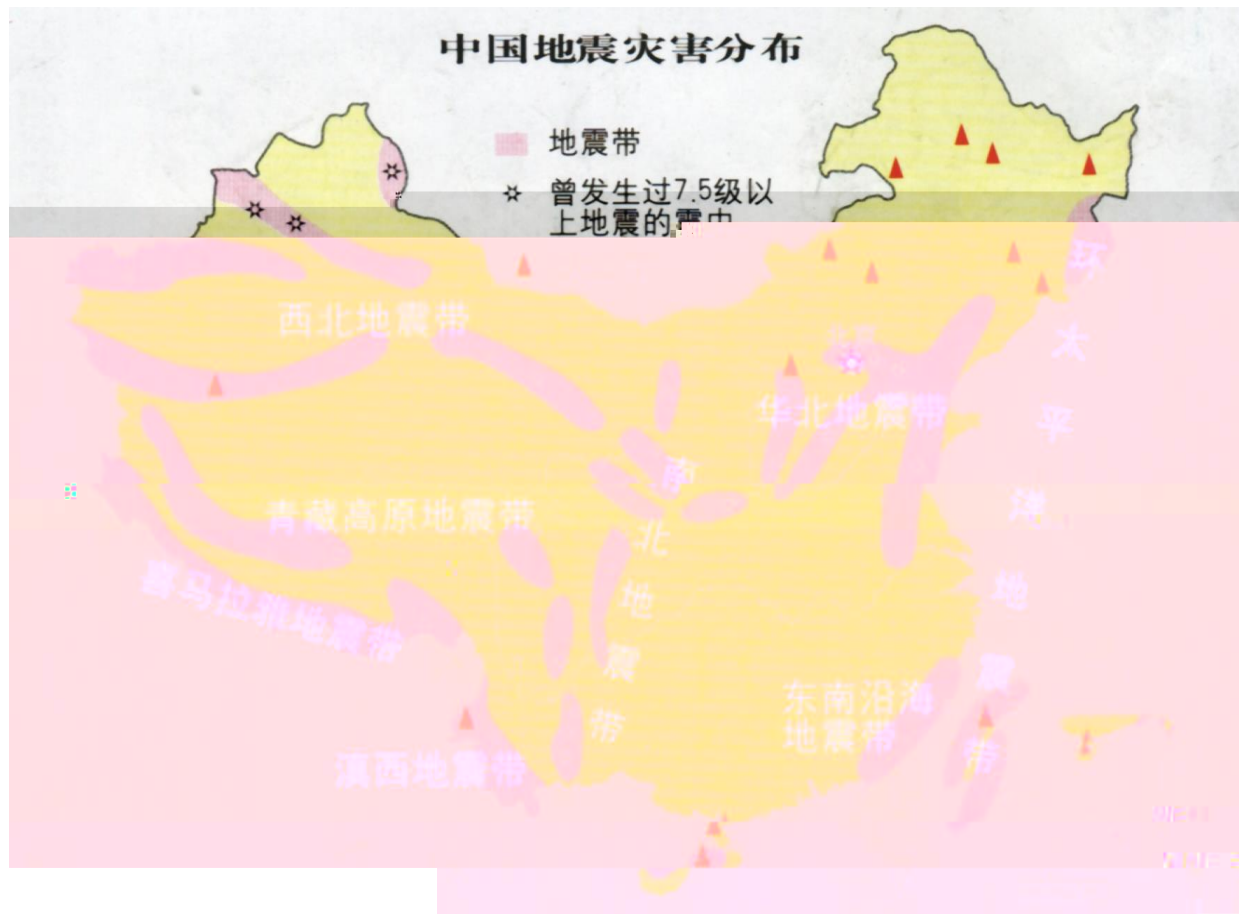


4.

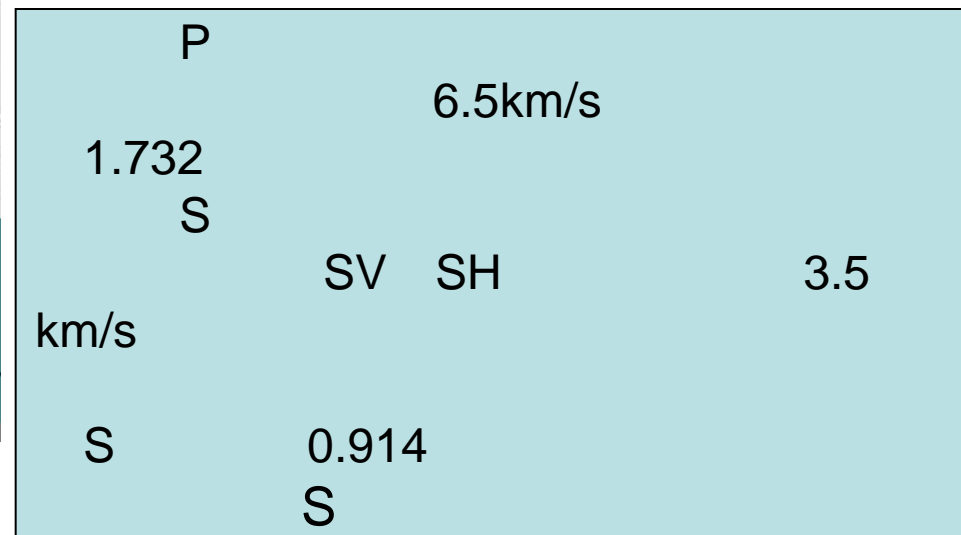
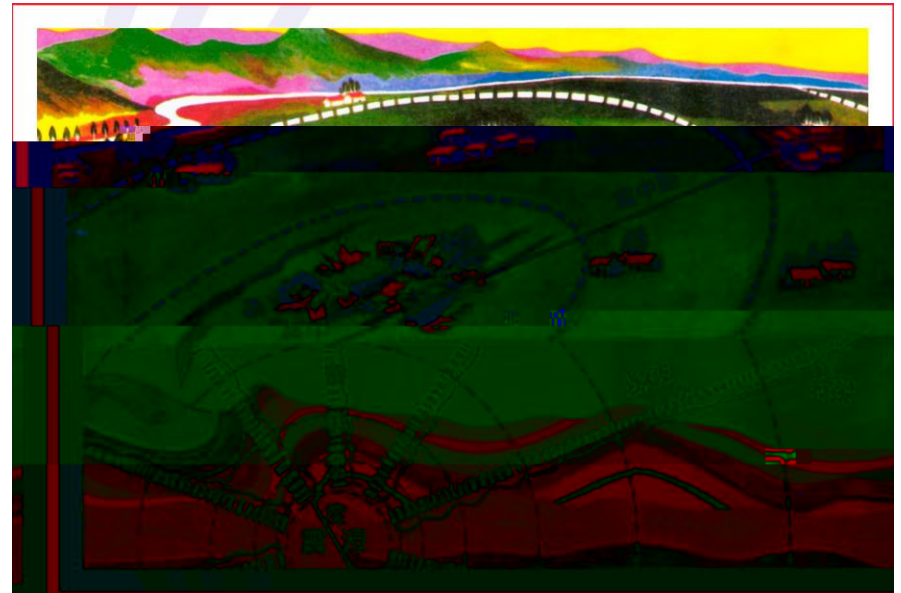
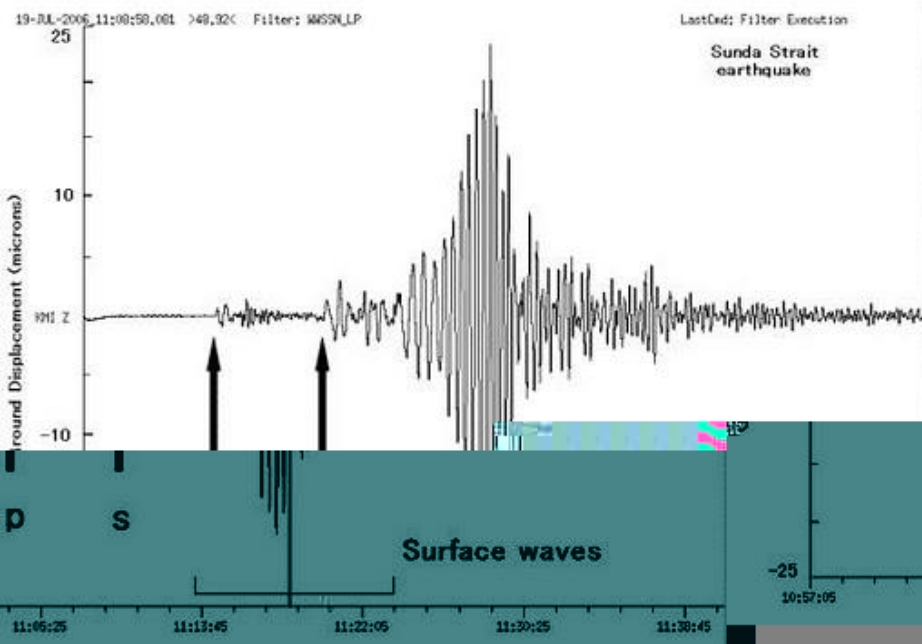
全球地震带分布图



中国地震灾害分布



5.



井水是个宝，
前兆来得早。

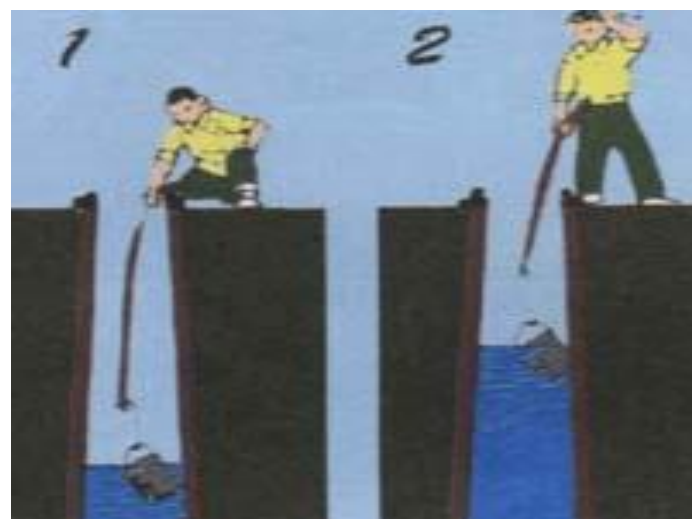
无雨泉水浑，
天旱井水冒；

水位升降大，
翻花冒气泡；

有的变颜色，
有的变味道；

雨要至，
天要变。

水变地要闹，
人人都观察，
异常快报告。





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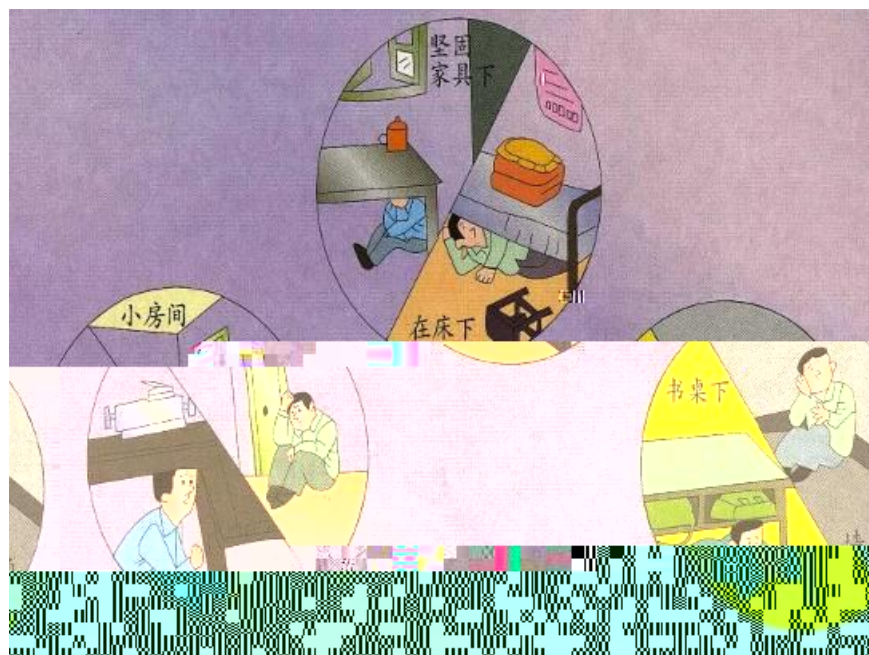
震时就近躲避，震后迅速撤离到安全地方，是

应急避震较好的办法。

应急避震较好的办法

10

1





1

1

2

3

4

5

6

7

1

2

2

1

2

1

2

3

4

以人为本，

安全第一，

生命至上！