

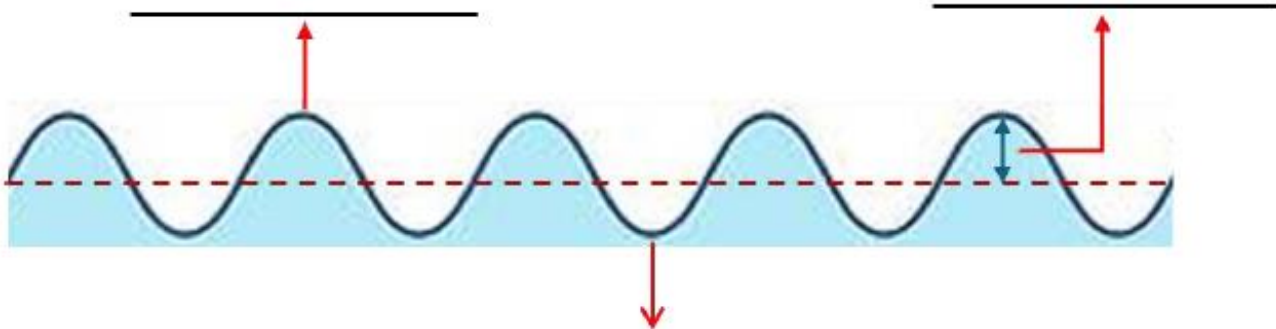
Grade 4

Name: _____ **Date:** _____ **Section:** _____

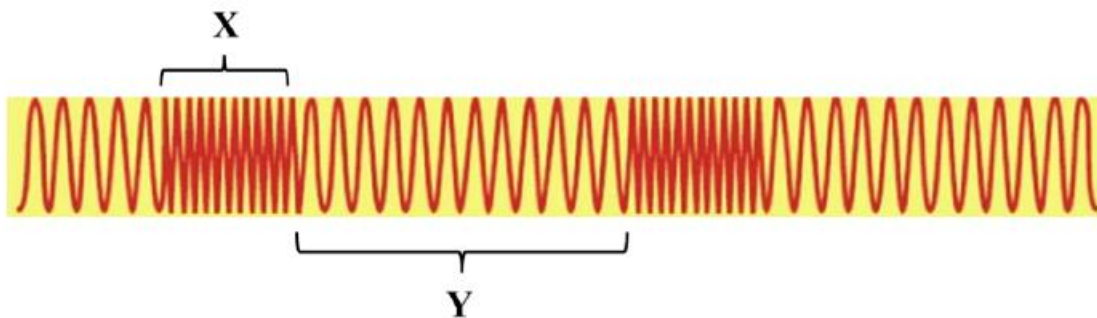
Label the parts of the wave (6)

Crest, trough amplitude

Identify the parts of the longitudinal wave (4)



rarefaction compression



X _____

Y _____

California Earthquake Data		
Year	Location	Magnitude
1980	Eureka	7.2
1984	Morgan Hill	6.2
1989	Loma Prieta	6.9
1992	Landers	7.3
1994	Northridge	6.7
2004	Parkfield	6.0
2010	Baja	7.2

How many earthquakes have a magnitude of less than 7? (1)

In which regions were there earthquakes of magnitude greater than 6.2 and under 7.3? (1)

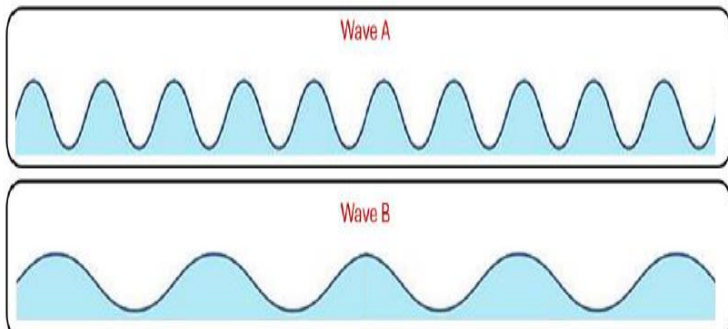
How many earthquakes had a magnitude greater than 6.2 and under 7.2? (1)

The land masses shown below are examples of a (1)_____.

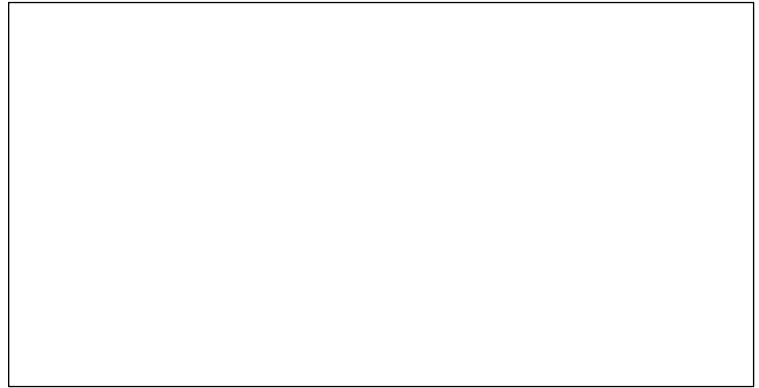
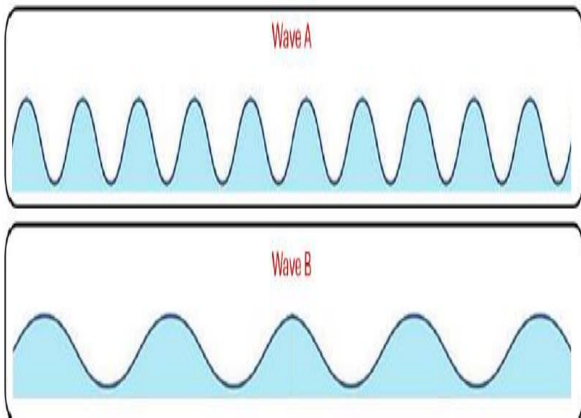


Which wave has the LONGER wavelength?

Explain your answer. (4)



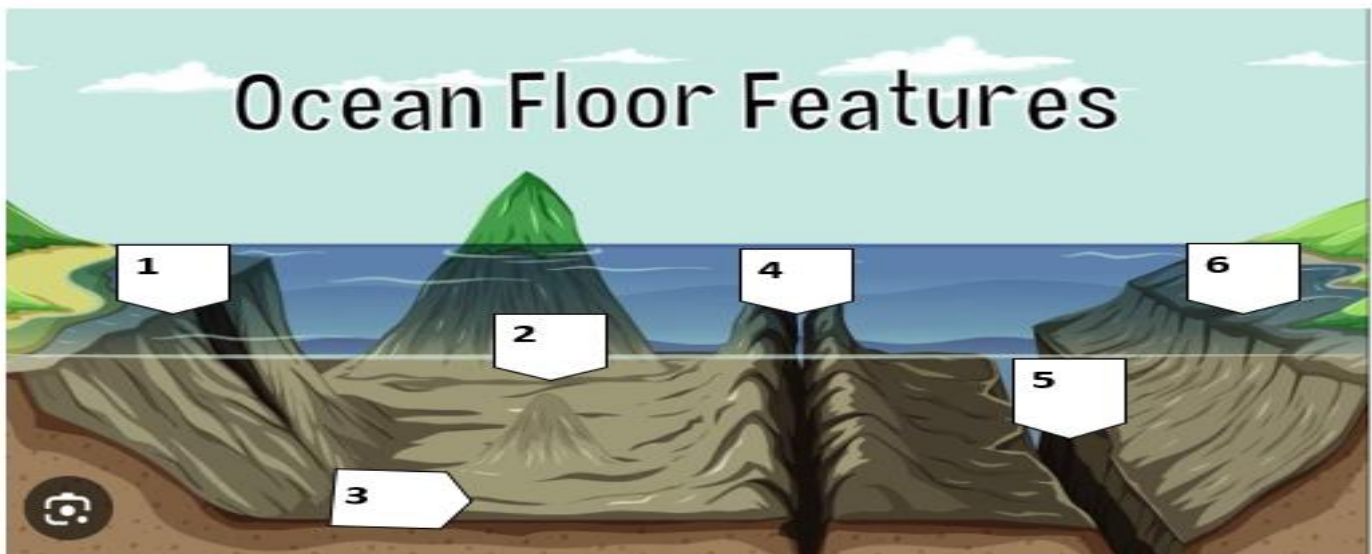
Which wave has the SHORTER wavelength? Explain your answer (4)



Label the ocean floor (6)

continent, continental slope, sea mount, mid ocean ridge, trench, continental shelf

1	
2	
3	
4	
5	
6	



Identify the landforms in the picture below (10)

A	
B	
C	
D	
E	
F	
G	
H	
I	
J	



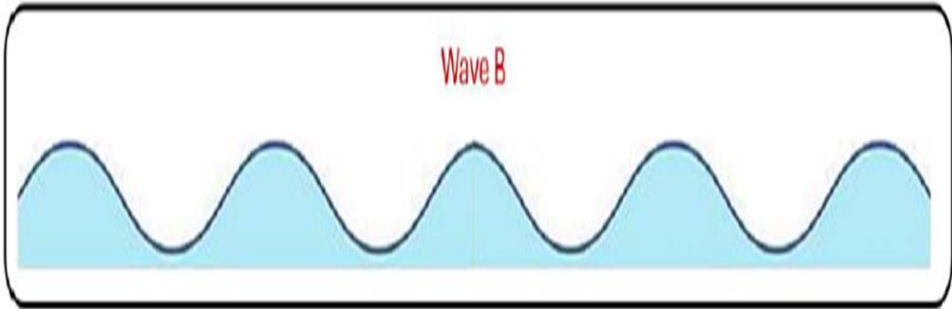
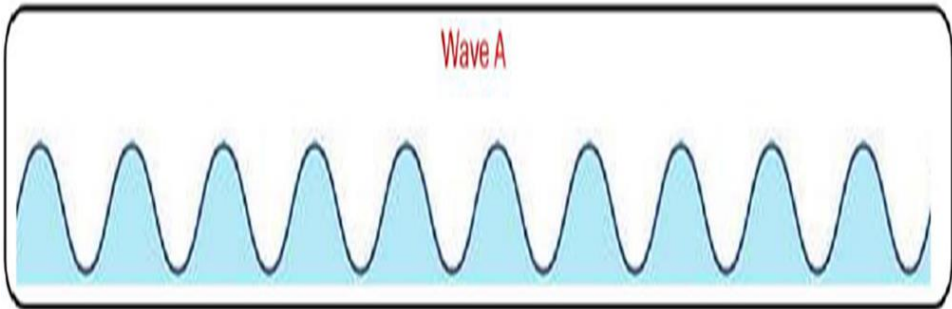
Choose ANY five landforms from the picture and describe them (10)

A	
B	
C	
D	
E	
F	
G	
H	
I	
J	

The two waves shown below travel with the same speed.

Identify which wave has a HIGHER frequency (1)

Identify which wave has a LOWER frequency (1)



$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

If a car travels 360 kilometers in 3 hours, what was the car’s average speed? (4)

If a car travels 250 kilometers in 2 hours, what was the car’s average speed? (4)

A	6.9
B	7.8
C	4.3

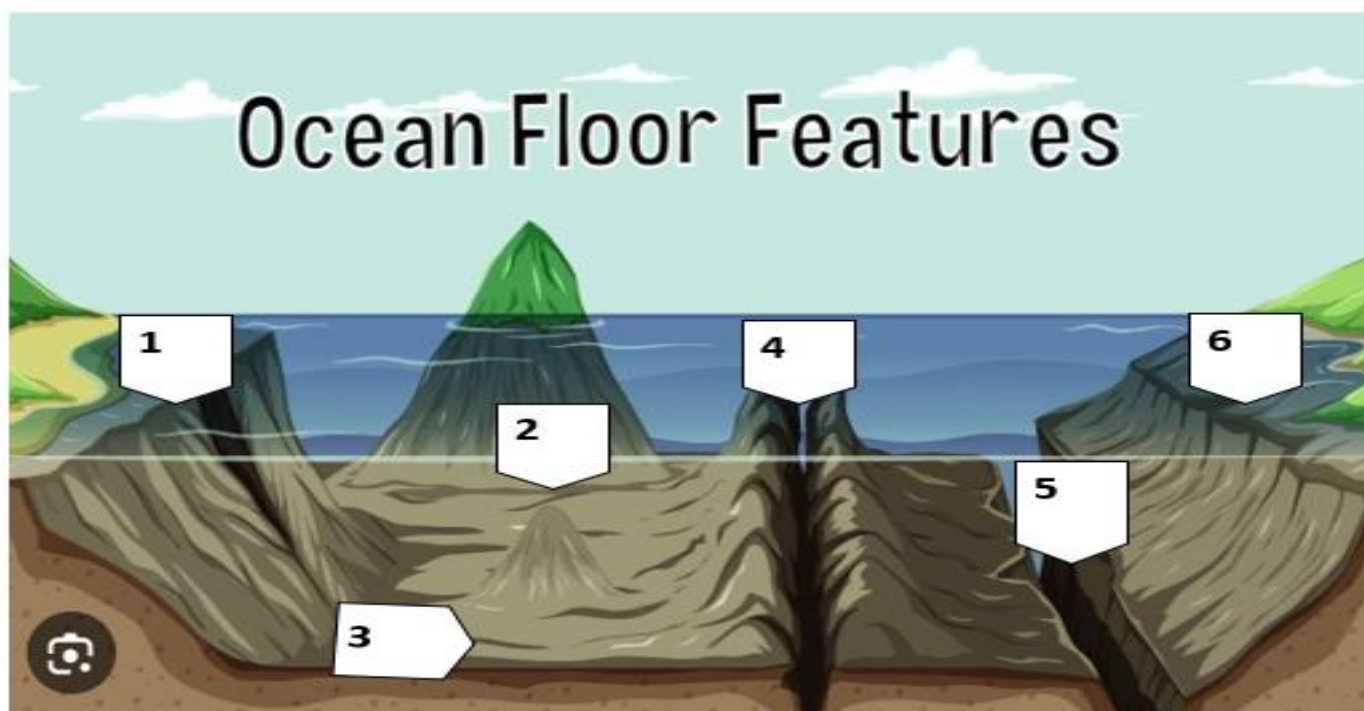
<u>Arrange the earthquakes from WEAKEST to STRONGEST (3)</u>	<u>Arrange the earthquakes from STRONGEST to WEAKEST(3)</u>

In what ways does erosion and deposition happen? (6)

Identify which of the following sentences are true or false(6)

- 1.Weathering is a slow process that does not break down materials into smaller pieces_____
- 2.Physical weathering does not change the minerals that make up rocks._____
- 3.Water, living things and oxygen can cause chemical weathering._____
- 4.Erosion is the movement of weathered material from place to another._____
- 5.Deposition is the process through which eroded soil and bits of rock are dropped off in another place._____
- 6.Erosion and deposition change the land._____

1	Continental shelf
2	Sea mount
3	Continental slope
4	Mid-ocean ridge
5	Trench
6	Continent



A	River mouth / Delta
B	Flood plain
C	Canyon
D	River / Lake
E	Mountain
F	Plateau
G	Cliff
H	River (middle course)
I	Sea / Ocean
J	Source of the river (spring or mountain stream)



Identify which of the following sentences are true or false(6)

- 1.Weathering is a slow process that does not break down materials into smaller pieces_____
- 2.Physical weathering does not change the minerals that make up rocks._____
- 3.Water, living things and oxygen can cause chemical weathering._____
- 4.Erosion is the movement of weathered material from place to another._____
- 5.Deposition is the process through which eroded soil and bits of rock are dropped off in another place._____
- 6.Erosion and deposition change the land._____

1. **False** – Weathering *does* break down materials into smaller pieces.
2. **True** – Physical weathering only breaks rocks apart without changing their minerals.
3. **True** – Water, living things, and oxygen all cause *chemical* weathering.
4. **True** – Erosion is the movement of weathered materials from one place to another.
5. **True** – Deposition is when eroded materials are dropped or settle in a new place.
6. **True** – Erosion and deposition both change the shape of the land.

California Earthquake Data		
Year	Location	Magnitude
1980	Eureka	7.2
1984	Morgan Hill	6.2
1989	Loma Prieta	6.9
1992	Landers	7.3
1994	Northridge	6.7
2004	Parkfield	6.0
2010	Baja	7.2

From WEAKEST to STRONGEST:

1. Parkfield – 6.0
2. Morgan Hill – 6.2
3. Northridge – 6.7
4. Loma Prieta – 6.9
5. Eureka – 7.2
6. Baja – 7.2
7. Landers – 7.3

How many earthquakes have a magnitude of less than 7? (1)

1-2-3-4-

In which regions were there earthquakes of magnitude greater than 6.2 and under 7.3? (1)

3-4-5-6

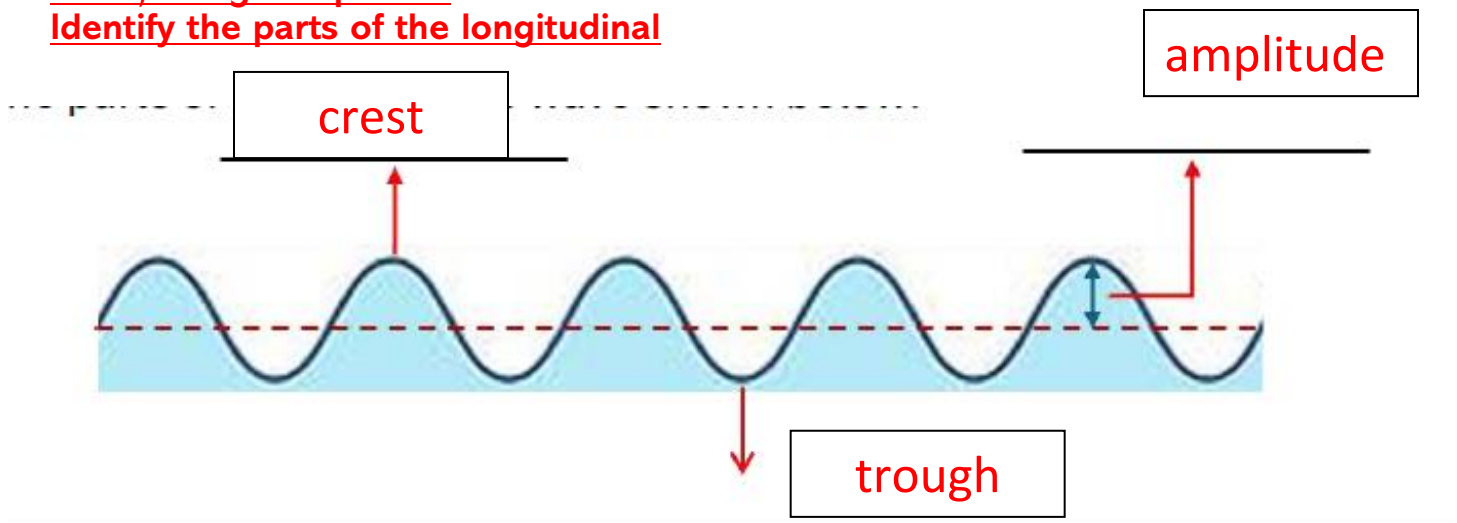
How many earthquakes had a magnitude greater than 6.2 and under 7.2? (1)

__3 -4__

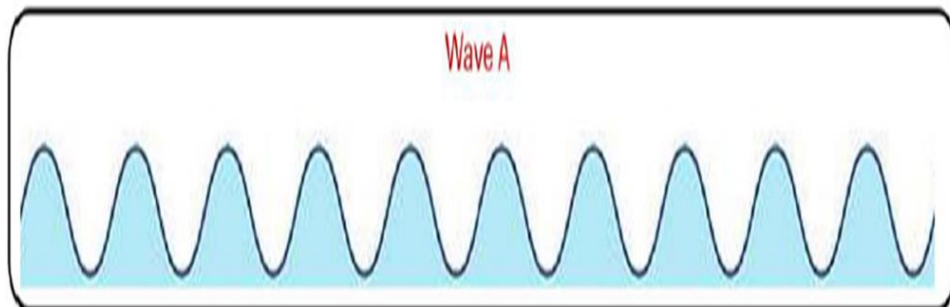
Label the parts of the wave (6)

Crest, trough amplitude

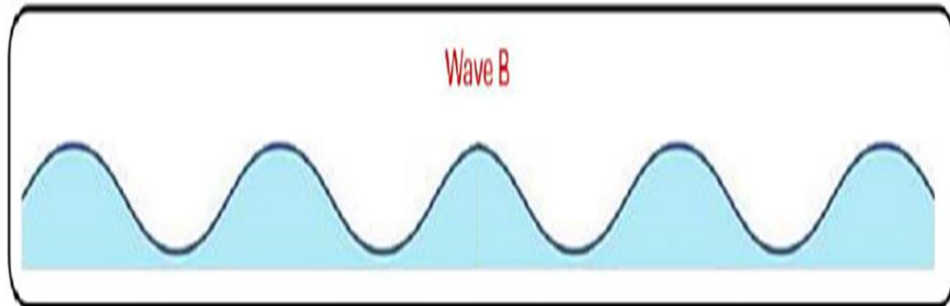
Identify the parts of the longitudinal



Identify which wave has a LOWER frequency (1)



High frequency



Low frequency

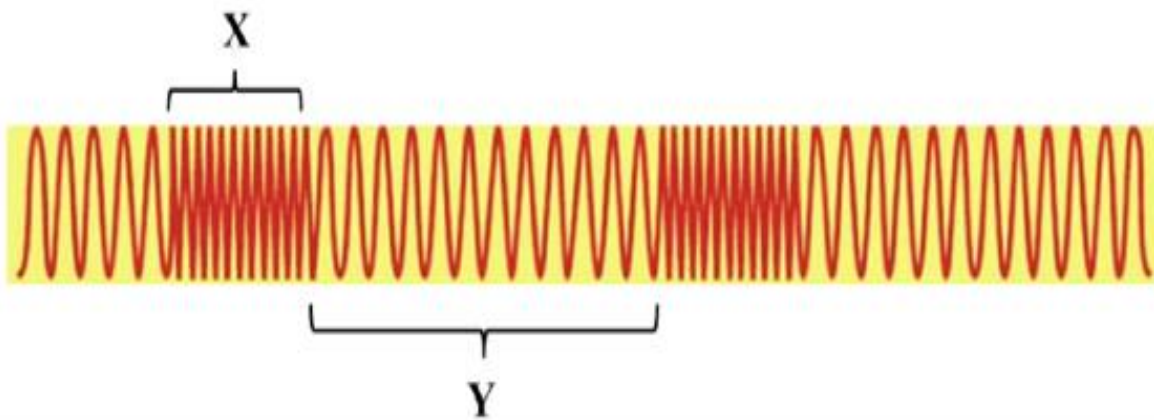
If a car travels 360 kilometers in 3 hours, what was the car's average speed? (4)

360 kilometer / 3hours

If a car travels 250 kilometers in 2 hours, what was the car's average speed? (4)

250 kilometer / 2 hours

rarefaction compression



X — compression

Y — rarefaction

The land masses shown below are examples of a (1)_____.

continents



Arrange the earthquakes in the table below from strongest to weakest.

Earthquake	Magnitude
A	6.9
B	7.8
C	4.3

Strongest to weakest

7.8 6.9 4.3