

Section 6 – answer questions 1-7

Figure 15 is a map of Indonesia showing the plate boundary between the Eurasian and Indo-Australian plates.

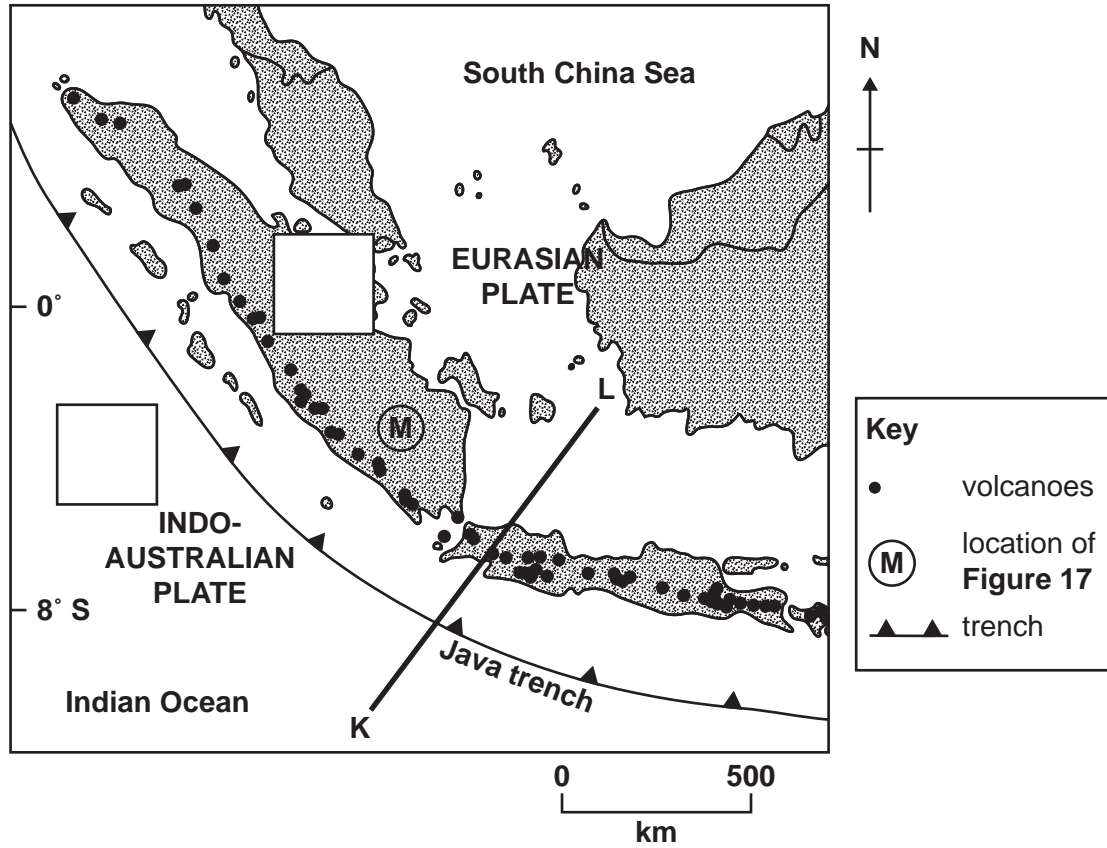


Figure 15

Figure 16 shows the depth of earthquake foci along the line K-L in Figure 15.

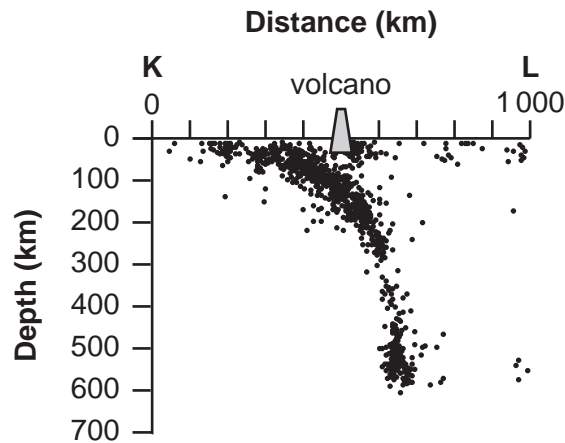
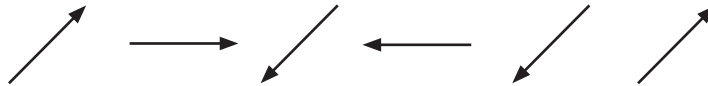


Figure 16

1. Which **two** of the following statements about the plate boundary shown in **Figures 15 and 16** are **incorrect**? Tick (✓) only **two** boxes. [2]

- earthquakes show the position of a rift valley
- Indonesia is an arc shaped group of islands
- earthquakes show the position of a subduction zone
- earthquakes get progressively deeper away from the trench
- a group of shallow earthquakes occur beneath the volcano
- earthquakes are deepest under the trench

2. Selecting from the choice below draw an arrow in **both** of the empty boxes in **Figure 15** to show the directions of relative plate movement at those locations. [1]



3. Draw a line from each of the following igneous rocks to their **most likely** region of formation. [3]

- | | |
|-------------------------------|---|
| | at a depth of 10 km within a fold mountain chain |
| andesitic lava | at a depth of 10 km below the ocean floor |
| basalt with pillow structures | at the surface of an island arc system |
| granite batholith | at the axis of a mid-ocean ridge |
| | at a depth of 35 km below the axis of a mid-ocean ridge |