

Extension Question: Metamorphic Processes

E.7. Figure 7a shows a rock specimen of slate.

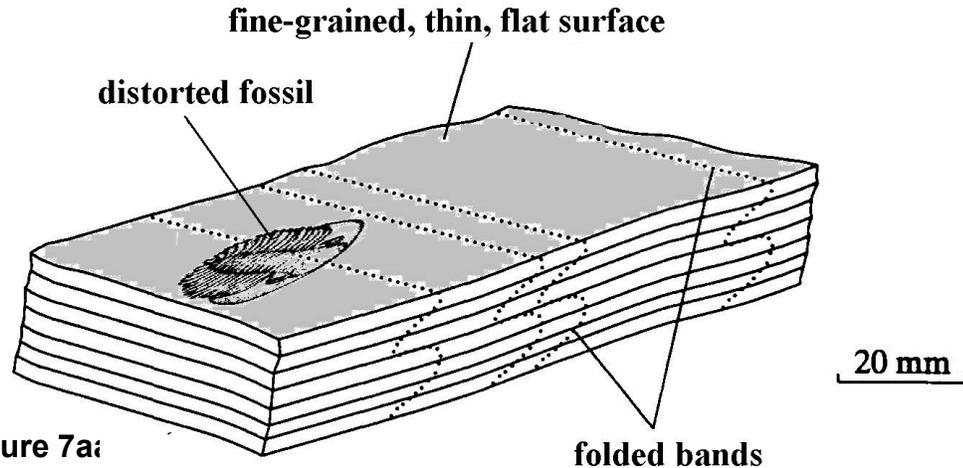


Figure 7a:

- (a) This slate was once a fine-grained *mudstone*, formed on the sea floor.
Give **one** piece of evidence for this.

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- (b) (i) What do you think the “folded bands” in the slate were before metamorphism?

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- (ii) Explain why fossils are often distorted or destroyed during metamorphism.

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- (c) Slate shows thin, flat surfaces along which the rock splits easily.
Explain how they might have been formed during metamorphism.

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- (d) (i) State **two** uses for slate

1. 2.

- (ii) Give **two** reasons why slate is good for this purpose.

1. 2.