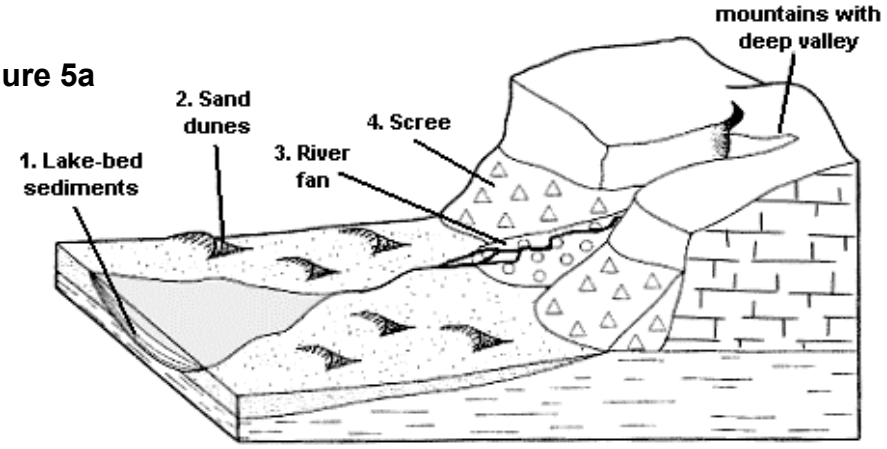
Extension Question: Sedimentary Processes

E5. **Figure 5a** is a drawing of a hot desert region, showing some of the surface processes of the rock cycle that result in the deposition of sediment.

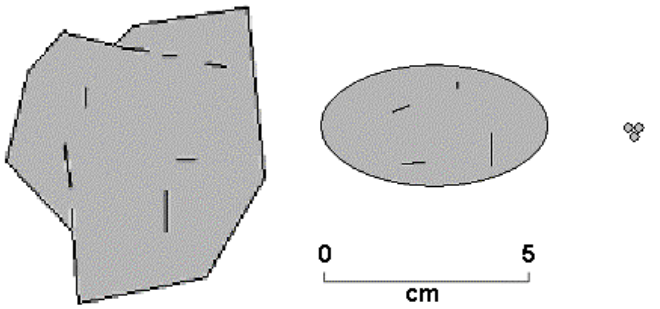
Figure 5a



(a) Complete the table below by selecting a numbered item from each list in the table headings. Write your answers in the blank boxes.

Weathering type **1. physical** **2. chemical**	**Transporting agent** **1. gravity** **2. water (river)** **3. wind**	**Deposit produced** **1. clay mud** (with mudcracks) **2. rounded pebbles & sand** **3. sloping sand layers** **4. angular boulders**
•	gravity	•
physical	•	rounded pebbles & sand (river fan deposits)
chemical	water (river)	•
•	•	sloping sand layers (dune deposits)

(b) Figure 5b, below, shows the size and shape of typical sediment particles from the deposits in **Figure 5a** (third picture shows three grains).



(i) In each box, write down the most likely *number* from the **Deposit produced** column in the table above.

(ii) In your own words, explain how sediment particles change as they are transported down-stream by a river.