

Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Separation of Substances

Q1. Is it possible to separate sugar mixed with wheat flour? If yes, how will you do it?

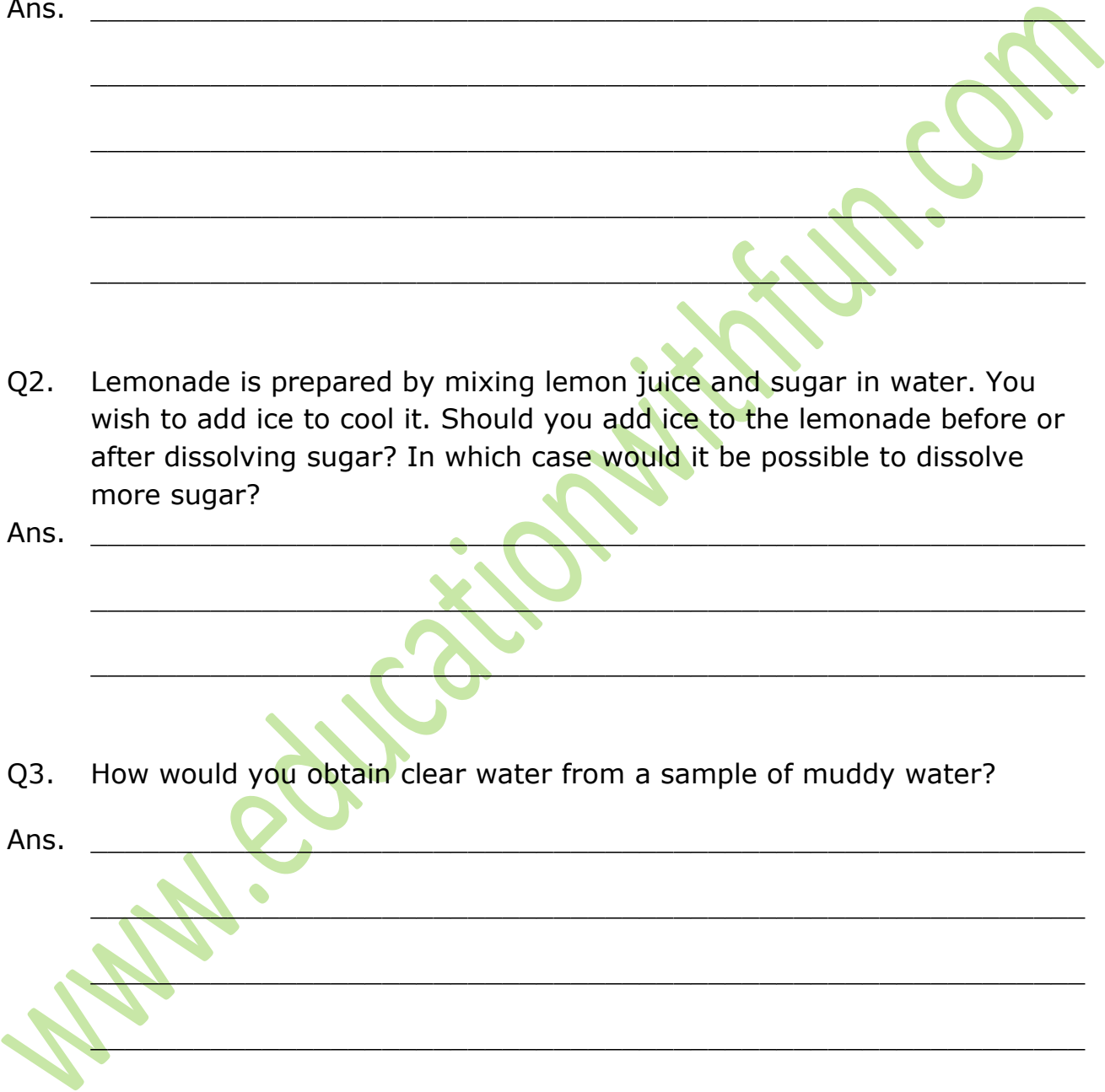
Ans. \_\_\_\_\_  
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Q2. Lemonade is prepared by mixing lemon juice and sugar in water. You wish to add ice to cool it. Should you add ice to the lemonade before or after dissolving sugar? In which case would it be possible to dissolve more sugar?

Ans. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Q3. How would you obtain clear water from a sample of muddy water?

Ans. \_\_\_\_\_  
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## Separation of Substances

Q1. Is it possible to separate sugar mixed with wheat flour? If yes, how will you do it?

Ans. Yes, it is possible to separate sugar mixed with wheat flour by the process of sieving. Allow the mixture to pass through the sieve. Fine particles of wheat flour pass through the holes of the sieve whereas the bigger particles of sugar would remain on the sieve.

Q2. Lemonade is prepared by mixing lemon juice and sugar in water. You wish to add ice to cool it. Should you add ice to the lemonade before or after dissolving sugar? In which case would it be possible to dissolve more sugar?

Ans. We should add sugar before adding ice as sugar dissolves faster in warm water than in cold water. We can dissolve more sugar in case of warm water.

Q3. How would you obtain clear water from a sample of muddy water?

Ans. We can obtain clear water from a sample of muddy water in the following ways:

1. Sedimentation and Decantation: Allow mixture to stand still for sometimes so, that mud settles down at the bottom. This process is called sedimentation. Now gently pour the water in another container. This process is called decantation.

2. Filtration: Allow the mixture to pass through the filter paper. Water will pass through the filter paper and mud will get collected on the filter paper. This process is called filtration.