

**■ Is It a Mixture?**

Each of the following items describes two substances combining. Decide whether or not each of the resulting combinations could be a mixture. Then explain why or why not.

1. Substance A is added to substance B. The freezing point of B is lowered by 9°C.

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2. When substance X and substance Y are mixed together, a magnet can remove particles of substance X.

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3. Particles of substance B are suspended in substance T.

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4. When substance X and substance Z are heated together in a test tube, drops of substance B form on the inside of the test tube.

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5. When substance Q is added to substance R, substance R tastes salty.

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6. When solid substance Y is added to liquid substance R, there is a violent explosion. The resulting matter has less mass than the combined masses of Y and R.

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