Name: Date: Score: / 8

Mixtures and Solutions: Learn and Practice

Mix it, dissolve it, separate it

Read each question. Circle the best answer.

💡 Mixtures and Solutions

- A mixture is two or more things together that keep their own properties.
- A solution is a mixture where one thing dissolves evenly in another.
- Mixtures can be separated by sieving, magnets, filtering or evaporating.
- salt water left in the Sun: water evaporates: salt is left behind

1 ⏳ Does sand dissolve in water?

A. Yes B. Only at night C. Only when cold D. No

2 🧲 Which tool separates iron filings from sand?

A. A magnet B. A ruler C. A cup D. A spoon

3 🍵 Why does sugar dissolve faster in warm water?

A. Warm water particles move faster

B. Warm water is sweeter

C. Warm water is heavier D. Sugar turns into gas

4 Muddy water is poured through a paper filter. What stays in the filter?

A. The mud B. Nothing C. The water D. Air

5 🥜 A bowl of trail mix with nuts and raisins is a what?

A. Gas B. Single substance C. Mixture D. Solution

6 Which tool separates pebbles from sand?

A. A thermometer B. A magnet C. A balance D. A sieve

7 Sugar completely dissolved in water makes a what?

A. Rock B. Solution C. Magnet D. Solid

8 ☀️ How can you get the salt back from salt water?

A. Let the water evaporate B. Use a magnet C. Use a sieve D. Shake it hard

✏️ Explain it! Write two facts you learned about mixtures and solutions.

ANSWER KEY

Mixtures and Solutions: Learn and Practice (answers)

Mix it, dissolve it, separate it

Read each question. Circle the best answer.

1 ⏳ Does sand dissolve in water?

A. Yes B. Only at night C. Only when cold **D. No**

Sand does not dissolve. It sinks or swirls, and you can still see the grains.

2 🧲 Which tool separates iron filings from sand?

A. A magnet B. A ruler C. A cup D. A spoon

Iron is attracted to a magnet and sand is not, so the magnet pulls the iron out.

3 🍵 Why does sugar dissolve faster in warm water?

A. Warm water particles move faster

B. Warm water is sweeter

C. Warm water is heavier D. Sugar turns into gas

Faster particles bump into the sugar more often and pull it apart sooner.

4 Muddy water is poured through a paper filter. What stays in the filter?

A. The mud B. Nothing C. The water D. Air

Water passes through the tiny holes, but the bigger mud bits get trapped.

5 🥜 A bowl of trail mix with nuts and raisins is a what?

A. Gas B. Single substance **C. Mixture**

D. Solution

Each piece keeps its own properties and you can pick them apart, so it is a mixture.

6 Which tool separates pebbles from sand?

A. A thermometer B. A magnet C. A balance **D. A sieve**

A sieve has small holes. Sand falls through and the pebbles stay on top.

7 Sugar completely dissolved in water makes a what?

A. Rock **B. Solution** C. Magnet D. Solid

When sugar dissolves evenly into water, the mixture is called a solution.

8 ☀️ How can you get the salt back from salt water?

A. Let the water evaporate B. Use a magnet

C. Use a sieve D. Shake it hard

When the water evaporates into the air, the salt is left behind as crystals.