

## REASONING QUIZ

**Q1. Fact 1: Jessica has four children.**

**Fact 2: Two of the children have blue eyes and two of the children have brown eyes.**

**Fact 3: Half of the children are girls.**

If the first three statements are facts, which of the following statements must also be a fact?

1. At least one girl has blue eyes.
2. Two of the children are boys.

III. The boys have brown eyes.

1. II only
2. I and III only
3. II and III only
4. None of the statements is a known fact.

**Q2. Fact 1: All hats have brims.**

**Fact 2: There are black hats and blue hats.**

**Fact 3: Baseball caps are hats.**

If the first three statements are facts, which of the following statements must also be a fact?

1. All caps have brims.
2. Some baseball caps are blue.

III. Baseball caps have no brims.

1. I only
2. II only
3. I, II, and III
4. None of the statements is a known fact.

**Q3. Fact 1: All chickens are birds.**

**Fact 2: Some chickens are hens.**

**Fact 3: Female birds lay eggs.**

If the first three statements are facts, which of the following statements must also be a fact?

1. All birds lay eggs.
2. Hens are birds.

III. Some chickens are not hens.

1. II only
2. II and III only
3. I, II, and III
4. None of the statements is a known fact.

**Q4. Fact 1: Most stuffed toys are stuffed with beans.**

**Fact 2: There are stuffed bears and stuffed tigers.**

**Fact 3: Some chairs are stuffed with beans.**

If the first three statements are facts, which of the following statements must also be a fact?

1. Only children's chairs are stuffed with beans.
2. All stuffed tigers are stuffed with beans.

III. Stuffed monkeys are not stuffed with beans.

1. I only
2. II only
3. II and III only
4. None of the statements is a known fact.

**Q5. Fact 1: Pictures can tell a story.**

**Fact 2: All storybooks have pictures.**

**Fact 3: Some storybooks have words.**

If the first three statements are facts, which of the following statements must also be a fact?

1. Pictures can tell a story better than words can.
2. The stories in storybooks are very simple.

III. Some storybooks have both words and pictures.

1. I only
2. II only
3. III only
4. None of the statements is a known fact.

**Q6. Fact 1: Robert has four vehicles.**

**Fact 2: Two of the vehicles are red.**

**Fact 3: One of the vehicles is a minivan.**

If the first three statements are facts, which of the following statements must also be a fact?

1. Robert has a red minivan.
2. Robert has three cars.

III. Robert's favorite color is red.

1. I only
2. II only
3. II and III only
4. None of the statements is a known fact.

**Q7. Fact 1: Islands are surrounded by water.**

**Fact 2: Maui is an island.**

**Fact 3: Maui was formed by a volcano.**

If the first three statements are facts, which of the following statements must also be a fact?

1. Maui is surrounded by water.
2. All islands are formed by volcanoes.

III. All volcanoes are on islands.

1. I only

2. III only
3. I and II only
4. None of the statements is a known fact.

**Q8. Fact 1: All drink mixes are beverages.**

**Fact 2: All beverages are drinkable.**

**Fact 3: Some beverages are red.**

If the first three statements are facts, which of the following statements must also be a fact?

1. Some drink mixes are red.
2. All beverages are drink mixes.

III. All red drink mixes are drinkable.

1. I only
2. II only
3. I and III
4. None of the statements is a known fact.

**Q9. Fact 1: Eyeglass frames cost between \$35 and \$350.**

**Fact 2: Some eyeglass frames are made of titanium.**

**Fact 3: Some eyeglass frames are made of plastic.**

If the first three statements are facts, which of the following statements must also be a fact?

1. Titanium eyeglass frames cost more than plastic frames.
2. Expensive eyeglass frames last longer than cheap frames.

III. Only a few eyeglass frames cost less than \$35.

1. II only
2. I and II only
3. II and III only
4. None of the statements is a known fact.

**Q10. Fact 1: Some pens don't write.**

**Fact 2: All blue pens write.**

**Fact 3: Some writing utensils are pens.**

If the first three statements are facts, which of the following statements must also be a fact?

1. Some writing utensils don't write.
2. Some writing utensils are blue.

III. Some blue writing utensils don't write.

1. II only
2. I and II only
3. II and III only
4. None of the statements is a known fact.

**--:ANSWERS:--**

**1.Answer:** Option A

**2.Answer:** Option D

**3.Answer:** Option B

**4.Answer:** Option D

**5.Answer:** Option C

**6.Answer:** Option D

**7.Answer:** Option A

**8.Answer:** Option C

**9.Answer:** Option D

**10.Answer:** Option B