

# Grade 4 Worksheet: Deductive Reasoning

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

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

## ◆ Section 1: Use the Clues

Read the clues carefully and answer the question.

1) Who has the red bag?

- Anna has a blue bag.
- Cara has a green bag.

Who has the red bag? \_\_\_\_\_

2) What is the number?

- It is greater than 30.
- It is less than 40.
- It is an even number.
- It is not 32, 36, or 38.

Number: \_\_\_\_\_

3) Who is the tallest?

- John is taller than Sam.
- Sam is taller than Leo.

Who is the tallest? \_\_\_\_\_

## ◆ Section 2: Eliminate to Solve

1) What day is the test?

- The test is not on Monday or Tuesday.
- It is before Friday.
- It is not on Wednesday.

Day: \_\_\_\_\_

2) Which pet does Mia have?

- Mia does not have a dog.
- She does not have a fish.
- Choices: parrot, dog, fish

Answer: \_\_\_\_\_

3) What number am I?

- I am between 10 and 20.
- I am a multiple of 5.
- I am not 10 or 15.

Answer: \_\_\_\_\_

## ◆ Section 3: True or False (Use Logic)

Circle **True** or **False**

1)

- All birds can fly.
- A penguin is a bird.

Conclusion: Penguins can fly.

True / False

2)

- If a number is even, it ends in 0, 2, 4, 6, or 8.
- 12 ends in 2.

Conclusion: 12 is even.

True / False

## ◆ Section 4: Logic Problem

Three friends—Amy, Brian, and Chloe—each like a different fruit: apple, banana, or orange.

Clues:

- Amy does not like bananas.
- Brian likes oranges.
- Chloe does not like apples.
- Each person likes only one fruit.

Answers:

Amy: \_\_\_\_\_

Brian: \_\_\_\_\_

Chloe: \_\_\_\_\_