

## **ToM Booklet Task: Example Answers and Coding**

### **False-belief Reasoning**

This morning when she came to school, Allie put her snack on this shelf, above the backpack shelf. What did Allie bring her snack in? That's right- a brown paper bag! And then she went outside to play- see? Here's Allie playing outside. And while she was outside playing, Allie's snack fell down from on top of the backpack shelf to behind the backpack shelf, see? Then Sue comes in, and Sue puts her snack above the backpack shelf. What did Sue bring her snack in? That's right- a brown paper bag! But Allie is still outside playing, so she didn't see what Sue was doing.

#### Example 1: Correct Prediction + Correct Explanation

E: Now, when Allie comes in from outside, where will she look first for her snack: up on top of the backpack shelf, or behind the backpack shelf?

C: On top of the shelf.

E: Let's see what she does. Oh, you're right, here is Allie reaching for this snack up on top of the shelf. Why is Allie reaching for the snack on top of the shelf?

C: Because she thinks it's on top of the shelf.

#### Example 2: Incorrect Prediction + Correct Explanation

E: Now, when Allie comes in from outside, where will she look first for her snack: up on top of the backpack shelf, or behind the backpack shelf?

C: Behind the backpacks.

E: Let's see what she does. Oh look, here is Allie reaching for this snack up on top of the shelf. Why is Allie reaching for the snack on top of the shelf?

C: 'Cause she thinks that's hers.

#### Example 3: Correct Prediction + Incorrect Explanation

E: Now, when Allie comes in from outside, where will she look first for her snack: up on top of the backpack shelf, or behind the backpack shelf?

C: On top of the shelf.

E: Let's see what she does. Oh, you're right, here is Allie reaching for this snack up on top of the shelf. Why is Allie reaching for the snack on top of the shelf?

C: Because she saw something there.

#### Example 4: Incorrect Prediction + Incorrect Explanation

E: Now, when Allie comes in from outside, where will she look first for her snack: up on top of the backpack shelf, or behind the backpack shelf?

C: Behind the backpacks.

E: Let's see what she does. Oh look, here is Allie reaching for this snack up on top of the shelf. Why is Allie reaching for the snack on top of the shelf?

C: Because she wants it.

### **Moral Reasoning based on true beliefs**

Mitch and Melanie both brought one cookie to have during snacktime. But Melanie got hungry this morning, so she decided to eat her cookie early, before snacktime. So now, during snacktime, Melanie doesn't have a cookie.

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Melanie sees Mitch's cookie in his desk. Then, Mitch goes get a juicebox from his backpack. And while he was getting his juicebox, when no one was looking, Melanie steals Mitch's cookie and eats it.

#### *Example 1: Correct Prediction + Correct Explanation*

E: Should Melanie get in trouble for eating Mitch's cookie?

C: Yes.

E: Why?

C: Because she stole it without asking.

#### *Example 2: Incorrect Prediction + Incorrect Explanation*

E: Is Melanie being mean and naughty for eating Mitch's cookie?

C: No.

E: Why not?

C: 'Cause she was hungry.

### **Moral Reasoning based on false beliefs**

This morning when she came to school, Allie put her snack on this shelf, above the backpack shelf. What did Allie bring her snack in? That's right- a brown paper bag! And then she went outside to play- see? Here's Allie playing outside. And while she was outside playing, Allie's snack fell down from on top of the backpack shelf to behind the backpack shelf, see? Then Sue comes in, and Sue puts her snack above the backpack shelf. What did Sue bring her snack in? That's right- a brown paper bag! But Allie is still outside playing, so she didn't see what Sue was doing. Now, when Allie comes in from outside, where will she look first for her snack: up on top of the backpack shelf, or behind the backpack shelf?

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Let's see what she does. Oh look (or, you're right!), here is Allie reaching for this snack up on top of the shelf. Why is Allie reaching for the snack on top of the shelf?

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And now Sue sees Allie reaching for that snack, and she gets really upset. Why does Sue feel sad? Is Allie being mean and naughty for taking Sue's snack? Why/why not? Should Allie get in trouble with their teacher (Mr. Cook) for taking Sue's snack? Why/why not?

Now can you give Sue back her snack? Great! And can you give Allie back her snack? Great!

#### Example 1: Correct Prediction + Correct Explanation

E: Is Allie being mean and naughty for taking Sue's snack?

C: No.

E: Why not?

C: Because she didn't know that her snack fell from the top of the shelf.

#### Example 2: Correct Prediction + Incorrect Explanation

E: Should Allie get in trouble for taking Sue's snack?

C: No

E: Why not?

C: Because I don't like that.

#### Example 3: Incorrect Prediction + Incorrect Explanation

E: Should Allie get in trouble for taking Sue's snack?

C: Yes.

E: Why?

C: Because she's reaching for her [Sue's] snack.

### **Interpretation**

This is Chloe. And Chloe is playing a really silly game today and not saying any words all day long. Instead, she's drawing pictures. So now it's reading time, and Chloe wants Mr. Abbott to get a book down from the top shelf for her. Up on the top shelf is a book about witches, and a book about sailboats. Chloe wants the book about witches, but she doesn't know how to draw a whole witch, because that's kind of hard. So she draws a picture of a witch's hat, and a picture of a witch's broom. Which picture should Chloe give to Mr. Abbott, so he will get her the book about witches and not the book about boats?

Why is this clue better than that one? (If prediction question was answered incorrectly: Actually, she shows Mr. Abbot this clue. Why is this clue better?)

Can you help Mr. Abbott get down the book about witches, for Chloe? OK, we're all done! Good job!

#### Example 1: Correct Prediction + Correct Explanation

E- Which picture should Chloe give to Mr. Abbott, so he will get her the book about witches and not the book about boats?

C- The broom

E- Why is that clue better than the other clue?

C- Because the other one might look like a sailboat to Mr. Cook

#### Example 2: Correct Prediction + Incorrect Explanation

E- Which picture should Chloe give to Mr. Abbott, so he will get her the book about witches and not the book about boats?

C- The broom

E- Why is that clue better than the other clue?

C- Because witches have brooms.

**Reference (Hard)**

This is Daniel. Earlier today Daniel was reading this book about fruit, and he really liked the section about oranges. It had pictures of oranges, orange juice, orange trees, and even the farmers who grow the oranges. Now Daniel is coming in to get a book. Here on the table is the book about fruit that he read this morning. And over here, on the shelf, is a book about history with an orange cover. So Daniel comes in and says "I want the orange book!" Which book does Daniel want? How do you know? Can you give it to him?

*Example 1: Correct Prediction + Correct Explanation*

E: Which book does Daniel want?

C: The book about fruit

E: How do you know?

C: Because he likes that book.

*Example 2: Correct Prediction + Incorrect Explanation*

E: Which book does Daniel want?

C: The book about fruit.

E: How do you know?

C: Because it's about fruit.

*Example 3: Incorrect Prediction + Incorrect Explanation*

E: Which book does Daniel want?

C: The book about history

E: How do you know?

C: Because it's orange