

ToM Booklet #2

**Denotes questions that are skipped when administering booklet to children younger than five years of age.*

This is a story about a classroom. What grade are you in? Well these kids are in [x] grade, just like you, and their teacher, Mr. Cook, just told all the kids that it is snack time. So now all of the children are going to get their snacks, and we're going to help them. Are you ready?

Common Desires

1. Here's Henry. Henry is trying to decide between the two snacks that his dad packed for him. He could eat apples, or he could eat strawberries.

Which snack do you like better, apples or strawberries?

ToMS_2AFC_1.1

You like [that one]? Henry also likes [that one] better, so which one will Henry choose to eat?

Okay, can you give Henry that one?

Implicit False Belief

1.5. This is Rachel. And Rachel brought raisins to have during snack time. Rachel walks into this room and sees two containers on the rug- There's one container on a yellow mat, and one container on a blue mat. Rachel decides to put her raisins in the container on the yellow mat. Then Rachel goes away.

Now, while Rachel is away, we're going to play a trick on Rachel. We're going to take her raisins out of this container, on the yellow mat, and *move* them to this container on the blue mat! And then we're going to put these heavy lids on the containers.

ToMS_2AFCImp_1.5.1

So now Rachel comes back in. What happens next- can you show me with Rachel? (Hand Rachel to child).

ToMS_Expl_1.5.2

Why does Rachel go there?

Alright, good job!

Diverse Desires

2. Now here's Kari. Kari is also trying to decide between two snacks. She could eat trail mix, or she could eat a granola bar. Which do you like better- trail mix or granola bars?

ToMS_2AFC_2.1

You like [that one]? Yum! But Kari actually likes [the other one] better. So which snack will Kari pick- trail mix or granola bars?

Okay, can you give Kari that one?

Diverse Beliefs

3. Here's Joe. Joe is looking for his snack. It could be in his backpack, or it could be in his desk. Without peeking, where do you think Joe's snack is- in his backpack, or in his desk?

ToMS_2AFC_3.1

That's a good guess! But Joe thinks that his snack is in [the other one]. So where will Joe look for his snack- in his backpack, or in his desk?

Okay, let's watch Joe look there.

[If he finds it: Oh great! There's his snack! If he doesn't find it: Uh oh, it's not there. Can you help Joe find his snack?]

Reference (Easy)

4. Here is Carmen. And Carmen just came into the room. And here on the desk, right in front of Carmen, is a box of raisins. And there's another box of raisins over here, on the shelf, behind Carmen's back, and behind the door.

ToMS_2AFC_4.1

So Carmen just walked in through the door and she says "I want *that* snack!" Which snack does Carmen want?

ToMS_Expl_4.2

How do you know?

Okay, can you give it to her?

False beliefs- reality known

5. Here is Diana. This morning, Diana put her snack in this drawer, because she didn't want anyone to find it. But while Diana was outside playing, someone did find it! And moved it from inside the drawer, to inside the desk. So now it's snack time and Diana wants her snack.

ToMS_2AFC_5.1

Where will Diana look for her snack? In the drawer, or in the desk?

Let's see what she does.

ToMS_Expl_5.2

Oh, look, here is Diana looking for her snack in the drawer. Why is she looking for her snack in the drawer?

ToMS_Cont_5.3

And where is her snack really?

Can you help Diana find her snack?

Filler 1 (not included in score)

ToMS_Cont_6.1

6. This is Sean. Sean brought a pear to eat during snack time today. Can you give him his snack?

Moral Reasoning based on False Beliefs

7. 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.

ToMS_2AFC_7.1

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?

Let's see what she does.

ToMS_Expl_7.2

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?

ToMS_Expl_7.3

And now Sue sees Allie reaching for that snack, and she gets really upset. Why does Sue feel sad?

ToMS_2AFC_7.4

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

ToMS_Expl_7.5

Why / why not?

ToMS_2AFC_7.6

Should Allie get in trouble with their teacher (Mr. Cook) for taking Sue's snack?

ToMS_Expl_7.7

Why / why not?

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

False beliefs: Expectations

8. Alright, ready for the next one? Everyday this month, Luke's dad has packed him crackers to have for snack. But today before school, Luke's dad ran out of crackers to pack, so he packed chips in the brown paper bag instead.

ToMS_Cont_8.1

What snack did Dad pack for Luke to have during snacktime- crackers, or chips?

ToMS_2AFC_8.2

Luke reaches into his backpack and feels the brown paper bag. He says, "Yum, my favorite!" What does Luke think is inside the bag- crackers, or chips?

ToMS_Expl_8.3

Why does he think that?

ToMS_Cont_8.4

What snack does Luke want?

Filler 2 (not included in score)

ToMS_Cont_9.1

9. [For young children who cannot read, point to each snack and label outloud]. This is Sarah. Sarah brought fruit snacks to have during snack time today. Can you give her her snack?

Reference (Hard)

10. This is Josh. Earlier today, Josh tried celery for the first time, and he really liked it! It was crunchy, tasted good with peanut butter, and was really yummy, so he really liked celery.

Later, mom was packing Josh's snack for school. There are two snacks on the kitchen table- celery, which Josh tried earlier today, and carrot sticks. Mom asks Josh what he'd like for snack, and he says "I want the one near the glasses!"

ToMS_2AFC_10.1 Which snack will Mom pack for Josh to have for snack?

ToMS_Expl_10.2 If right: That's right, Mom packs carrot sticks. Why will she pack that for snack?
If wrong: Oh look, Mom is actually packing carrot sticks. Why would she do that?

ToMS_2AFC_10.3 Which snack does Josh want- the celery, or the carrots?

ToMS_Cont_10.4 How did you know?

Sarcasm Control*

11. This morning, Charlie's dad asked him what he would like for snack. Charlie told him, "I'd like something salty!" So dad thought about it and decided to pack popcorn for Charlie.

Now it's snacktime, and Charlie just opened up his brown paper bag to find the popcorn. He says, "Mmm, my favorite." (positive intonation)

ToMS_Cont_11.1 Why did Charlie say that?

ToMS_2AFC_11.2 How does Charlie feel about his dad packing popcorn- happy or sad?

Reference (Hard)

12. This is Marie. And earlier today, Marie's mom made cookies! Mom left three cookies in the kitchen to cool off. There this small cookie on the counter, this medium sized cookie one on this table, and this big cookie down here, on this shelf. So Marie and Dad *just* walked in so that Dad can pack her a snack for school. And Marie tells her Dad, "I want the big cookie!"

ToMS_2AFC_12.1 Which cookie will Dad pack for Marie to have for snack?

ToMS_Expl_12.2 If right: That's right, Dad packs this cookie. Why will he pack this cookie?
If wrong: Actually, Dad packs this cookie, here. Why will dad pack this cookie?

ToMS_2AFC_12.3 Which cookie does Marie want?

ToMS_Expl_12.4 How did you know?

Interpretation

13. This is April. And April is playing a really silly game today and not saying any words all day long. Instead, she's drawing pictures. So now it's snack time, and April needs Mr. Cook to help her get her snack down from the top shelf. Up on the top shelf, there's one apple and one orange. April brought the orange to school for snack, so she's going to draw a clue for Mr. Cook so that he knows to give her the orange, and not the apple. April tries really hard, and she comes up with these two pictures- a picture of an orange slice, and a picture of a whole orange.

ToMS_2AFC_13.1

Which clue should April give to Mr. Cook so that he knows to give her the orange and not the apple?

ToMS_Expl_13.2

If right: Why is that picture better than this one?

If wrong: Actually, April decides to give him this clue. Why would she do that?

Can you help Mr. Cook get April's snack for her?

Emotion reminder

14. This (point to top left picture) is a picture from last week. And last week, Bill decided to eat his snack outside on the benches, and there was a friendly puppy playing nearby. Bill thought that the puppy was really cute and liked to pet the puppy. But then, the puppy stole Bill's snack, and ran away with it!

ToMS_2AFC_14.1

Now, *today* during snacktime, Bill decides to eat his snack outside again. As he gets his snack out, he sees the friendly puppy coming towards him, wagging his tail. How will Bill feel when he sees the puppy- happy, or sad?

ToMS_Expl_14.2

Why?

ToMS_2AFC_14.3

Will Bill want to sit near the puppy, or far away from the puppy?

ToMS_Expl_14.4

Why?

Action explanation with true belief

15. This is Jenni. Every morning, Jenni puts her snack on the shelf above the backpacks, so that she can find it later during snacktime. But today, Mr. Cook wants to clean the shelf. So Mr. Cook moves all of the snacks from the shelf, to his desk, and makes an announcement- he tells the class that all of the snacks have been moved to the desk.

ToMS_Cont_15.1

Where is Jenni's snack- on the shelf, or on the desk?

If right: That's right, Jenni's snack is on the desk.

If wrong: Remember, Mr. Cook moved Jenni's snack to the desk.

ToMS_2AFC_15.2

Now it's snacktime, and Jenni wants her snack. Where will she go to get her snack- to the shelf or to the desk?

OK, let's see what she does.

If right: That's right, Jenni goes to the desk.

If wrong: Oh, look, Jenni goes to the desk.

ToMS_Expl_15.3 Why does Jenni go to the desk to get her snack? (not included in score)

Moral reasoning based on true belief (intent to harm)

16. 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.

ToMS_Cont_16.1 Where is Melanie's cookie?

If right: That's right, she already ate her cookie.

If wrong: Remember, Melanie already ate her cookie.

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.

ToMS_Cont_16.2 Did Melanie know that was Mitch's cookie?
(If wrong: Actually, Melanie knew that it was Mitch's cookie).

ToMS_Expl_16.3 Why did Melanie eat Mitch's cookie? (not included in score)

ToMS_Expl_16.4 Now Mitch comes back to find his cookie and begins to cry. Why is Mitch crying?

ToMS_2AFC_16.5 Is Melanie being mean and naughty for eating Mitch's cookie?

ToMS_Expl_16.6 Why / why not?

ToMS_2AFC_16.7 Should Melanie get in trouble with Mr. Cook for eating Mitch's cookie?

ToMS_Expl_16.8 Why / why not?

ToMS_2AFC_16.9 Now, Mr. Cook tells all of the kids- surprise!! I brought one cookie for every kid in class today! Now, Mitch is happy, because he has a cookie. Should Melanie still get in trouble with Mr. Cook for eating Mitch's cookie?

ToMS_Expl_16.91 Why / why not?

False belief about morals/deception (Lies)*

17. Mr. Cook tells all of the kids to take one cookie from the bag that he brought- there is one cookie for every kid. Now there are two cookies left, and Brian and Megan are the last two kids without cookies. But when Brian goes to get his cookie, he decides to take both cookies, even though he knows that Megan doesn't have a cookie yet, and that everyone is only supposed to have one. Brian hides the extra cookie in his desk. Mr. Cook asks Brian, "Is there a cookie leftover, so Megan can have one?" and Brian tells Mr. Cook "No, there is no cookie left- they were all eaten."

ToMS_2AFC_17.1 Is Brian lying?

ToMS_Cont_17.2 Is there still a cookie left, that hasn't been eaten?

Megan is sad that she doesn't have a cookie, and asks Mr. Cook- is there an extra cookie for me? And Mr. Cook says, "I'm so sorry Megan, but there are no cookies left, they have all been eaten."

ToMS_2AFC_17.3 Is Mr. Cook lying?

ToMS_Expl_17.4 Why/why not?

ToMS_Cont_17.5 Is there still a cookie left, that hasn't been eaten?

ToMS_2AFC_17.6 That's right/Remember, there is a cookie left, in Brian's desk. How does Megan feel- Sad, or Fine?

ToMS_Expl_17.7 That's right/ Actually: even though there is a cookie left, Megan feels sad. Why?

Brian becomes hungry, so when no one is looking, he eats Megan's cookie. Now there is no cookie left; they have all been eaten.

ToMS_2AFC_17.8 Was Brian lying when he told Mr. Cook that all the cookies had already been eaten?

ToMS_Expl_17.9 Why/why not?

2nd order belief-desire reasoning

18. This morning, Dad asked Emma what she would like for snack, and Emma told him that she would like some string cheese for snacktime. Then Emma went upstairs to get ready for school. While she was getting ready, she remembered that there is yogurt in the fridge, so she yelled down to her dad, "Actually, may I please have yogurt instead?" and kept getting ready for school.

ToMS_2AFC_18.1 But Dad did not hear Emma ask for yogurt. What does dad think Emma wants for snack-string cheese, or yogurt?

If right: That's right, Dad thinks Emma wants string cheese for snacktime.

If wrong: Now remember, Dad didn't hear Emma say she wants yogurt. So dad thinks Emma wants string cheese.

Dad goes to pack Emma's snack, but realizes that they are all out of string cheese! He remembers that there is yogurt in the fridge, so he packs yogurt for Emma instead.*

ToMS_Expl_18.2 On the way to school, Dad tells Emma, "I'm so sorry- I couldn't pack the snack that you wanted because we were all out." Why does Dad say that?*

Emma feels a little sad that she won't have yogurt, but she says "It's okay, Dad."*

ToMS_Cont_18.3 What snack does Emma want?*

ToMS_Cont_18.4 What snack did Dad pack for Emma?*

ToMS_Expl_18.5 Now, it's snacktime, and Emma finds that Dad packed yogurt for her to have during snack, and she feels surprised. Why is Emma surprised?*

Sarcasm*

19. This morning, Leslie's mom asked her what she would like for snack. Leslie told her, "I'd like something sweet!" So Mom thought about it, but Mom wanted Leslie to eat something healthy for snack, so she packed carrot sticks for Leslie.

Now it's snacktime, and Leslie just opened up her brown paper bag to find the carrot sticks. She says, "*Mmm, my favorite.*" (say sarcastically!)

ToMS_Expl_19.1

Why did Leslie say that?

ToMS_2AFC_19.2

How does Leslie feel about her mom packing carrots- happy or sad?
