



CogID Task

[DESCRIPTION]:

In a house, a woman is wearing a dress and holding a handbag and man is wearing a suit and holding a hat. They are walking outward. They are likely a couple and about to attend a formal event. A boy extends both hands and runs towards his mother. He wants to hug his mother. He is chasing his parents and wants to go out with his mom. The mother is bending down and placing her hands on the boy's forehead. She is preventing the boy from following them outside. The boy is probably disappointed. His sister is sitting on a sofa in the living room and the TV is on, indicating she was watching TV. Perhaps curious about what's happening, she is looking at the boy. Next, the boy will stay at home with his sister.

[ENTITIES]:

man, woman, boy, girl, sofa, television, table, dress, handbag, hat, suit.

[SPECIAL TIME REASONING]:

None

[LOCATION REASONING]:

There is a sofa and a TV in the room. + A man, a woman, a boy and a girl are in or near the room. → In their house.

[CHARACTER REASONING]:

None

[CHARACTER RELATIONSHIP REASONING]:

A man, a woman, a boy and a girl are in a house. → The woman is the mother of the children.

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[EVENT REASONING]:

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The woman is wearing a dress and holding a handbag. + The man is wearing a suit and holding a hat. + They are walking outward. + The boy extends both hands and runs towards his mother. → The boy is chasing his parents and wants to go out with his mom.

The woman is wearing a dress and holding a handbag. + The man is wearing a suit and holding a hat. + They are walking outward. + The boy extends both hands and runs towards his mother. + The mother is bending down and placing her hands on the boy's forehead. → Mom is preventing the boy from following them outside.

[EVENT RELATIONSHIP REASONING]:

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The woman is wearing a dress and holding a handbag. + The man is wearing a suit and holding a hat. + They are walking outward. → The boy extends both hands and runs towards his mother.

The woman is wearing a dress and holding a handbag. + The man is wearing a suit and holding a hat. + They are walking outward. + The boy extends both hands and runs towards his mother. + The parents had no intention of taking the boy out. → The mother is bending down and placing her hands on the boy's forehead.

[NEXT MOMENT EVENT REASONING]:

The woman is wearing a dress and holding a handbag. + The man is wearing a suit and holding a hat. + They are walking outward. → The man and the woman are about to attend a formal event.

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[MENTAL STATE REASONING]:

The parents are about to attend a formal event. + The boy is chasing his parents and wants to go out with his mom. + Mom is preventing the boy from following them outside. → The boy is disappointed.

The parents are about to attend a formal event. + The boy is chasing his parents and wants to go out with his mom. + Mom is preventing the boy from following them outside. + The girl is looking at the boy. → The girl is curious.

CogVQA Task

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[EVENT REASONING]:

What is the woman doing?

- A. The woman is measuring whether the boy has a fever.
- B. The woman is going to hug his son.
- C. The woman is preventing the boy from going out with them.
- D. The woman is touching the boy's forehead, expressing love for him.

Correct Answer: [C]

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[EVENT RELATIONSHIP REASONING]:

Why is the mom placing her hands on the boy's forehead?

- A. The boy was being too hyper and needed to calm down.
- B. She is measuring whether the boy has a fever.
- C. She is about to go out, and doesn't intend to bring him.
- D. She is touching the boy's forehead, expressing love for him.

Correct Answer: [C]

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[MENTAL STATE REASONING]:

What is the girl's reaction to what's happening?

- A. Angry.
- B. Bored.
- C. Excited.
- D. Curious.

Correct Answer: [D]

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