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## LOGICAL REASONING

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### **Yellow:**

Use the blocks with their true statements to determine whether the conclusion is TRUE or FALSE.

1. Diego bought a pretzel.
2. Angela and Diego went shopping.
3. Angela bought a pretzel.
4. Diego had some of Angela's pizza.

### **Green:**

Because robots can withstand higher temperatures than humans, a fire-fighting robot is under development.

Put the blocks in order. Translate them into "If - Then" statements and write them in order.

1. If \_\_\_\_\_,  
then \_\_\_\_\_.
2. If \_\_\_\_\_,  
then \_\_\_\_\_.
3. If \_\_\_\_\_,  
then \_\_\_\_\_.
4. If \_\_\_\_\_,  
then \_\_\_\_\_.
5. If \_\_\_\_\_,  
then \_\_\_\_\_.

Complete the conditional  
"If there is a fire, then \_\_\_\_\_"

### **Blue:**

Use the true statements to form other conditionals (If-Then's).

- 1.
- 2.

the robot sets off a fire alarm

it concludes there is a fire

the robot sets off a fire alarm

it concludes there is a fire

the robot senses high levels of smoke and heat

it sets off a fire alarm

the robot senses high levels of smoke and heat

it sets off a fire alarm

the robot locates the fire

the robot extinguishes the fire

the robot locates the fire

the robot extinguishes the fire

there is a fire

the robot senses high levels of smoke and heat

there is a fire

the robot senses high levels of smoke and heat

the robot concludes there is a fire

it locates the fire

the robot concludes there is a fire

it locates the fire

GREEN

a dog is a  
gazehound

it hunts by sight

a dog is a  
gazehound

it hunts by sight

a hound bays

it is a scent hound

a hound bays

it is a scent hound

a dog is a  
foxhound

it does not hunt  
primarily by sight

a dog is a  
foxhound

it does not hunt  
primarily by sight

a dog is a  
coonhound

it bays when it  
hunts

a dog is a  
coonhound

it bays when it  
hunts

a dog is a  
greyhound

it is a gazehound

a dog is a  
greyhound

it is a gazehound

BLUE



Diego goes shopping  He will buy a pretzel

Diego goes shopping  He will buy a pretzel

The mall is open  Diego goes shopping  
Angela goes shopping

The mall is open  Diego goes shopping  
Angela goes shopping

Angela goes shopping  She will buy a pizza

Angela goes shopping  She will buy a pizza

Given  The mall is open

Given  The mall is open

Diego goes shopping  He will buy a pretzel

Diego goes shopping  He will buy a pretzel

The mall is open  Diego goes shopping  
Angela goes shopping

The mall is open  Diego goes shopping  
Angela goes shopping

Angela goes shopping  She will buy a pizza

Angela goes shopping  She will buy a pizza

Given  The mall is open

Given  The mall is open

**YELLOW**