

Table 27: Few-shot exemplars for full chain of thought prompt for Sports Understanding.

<b>PROMPT FOR SPORTS UNDERSTANDING</b>
<b>Q:</b> Is the following sentence plausible? “Kyle Palmieri was called for slashing.”
<b>A:</b> Kyle Palmieri is a hockey player. Being called for slashing is part of hockey. So the answer is yes.
<b>Q:</b> Is the following sentence plausible? “Joao Moutinho caught the screen pass in the NFC championship.”
<b>A:</b> Joao Moutinho is a soccer player. The NFC championship is part of American football, not soccer. So the answer is no.
<b>Q:</b> Is the following sentence plausible? “Carson Wentz set the pick and roll.”
<b>A:</b> Carson Wentz is an American football player. Pick and roll is part of basketball, not football. So the answer is no.
<b>Q:</b> Is the following sentence plausible? “Jonas Valanciunas beat the buzzer.”
<b>A:</b> Jonas Valanciunas is a basketball player. Beating the buzzer is part of basketball. So the answer is yes.
<b>Q:</b> Is the following sentence plausible? “Jamel Murray was perfect from the line.”
<b>A:</b> Jamal Murray is a basketball player. Being perfect from the line is part of basketball. So the answer is yes.
<b>Q:</b> Is the following sentence plausible? “Sam Darnold passed the puck.”
<b>A:</b> Sam Darnold is a American football player. Passing the puck is part of hockey, not American football. So the answer is no.
<b>Q:</b> Is the following sentence plausible? “Draymond Green threw a touchdown.”
<b>A:</b> Draymond Green is an basketball player. Throwing a touchdown is part of football, not basketball. So the answer is no.
<b>Q:</b> Is the following sentence plausible? “Malcolm Brogdon banked the shot in.”
<b>A:</b> Malcolm Brogdon is a basketball player. Banking the shot in is part of basketball. So the answer is yes.

Table 28: Few-shot exemplars for full chain of thought prompt for SayCan robot planning tasks.

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**PROMPT FOR SAYCAN ROBOT PLANNING**

Locations = [counter, table, user, trash, bowl].

Objects = [7up, apple, kettle chips, tea, multigrain chips, coke, lime soda, jalapeno chips, rice chips, orange, grapefruit soda, pepsi, redbull, energy bar, sponge, water].

The robot can pick up items with `pick(object)` and put down items with `put(object)` as well as find objects or locations with `find()`. The robot can only understand the explicit locations and objects listed.

**Human:** I'm hungry, can you bring me some chips.

**Explanation:** The user is hungry and has asked for chips. There are several types of chips available, I will bring the user the kettle chips.

**Plan:** 1. `find(kettle chips)`, 2. `pick(kettle chips)`, 3. `find(user)`, 4. `put(kettle chips)`, 5. `done()`.

**Human:** How would you move the grapefruit drink from the table to the counter?

**Explanation:** The user has asked me to move the grapefruit drink to the counter.

**Plan:** 1. `find(grapefruit soda)`, 2. `pick(grapefruit soda)`, 3. `find(counter)`, 4. `put(grapefruit soda)`, 5. `done()`.

**Human:** How would you bring me some snacks?

**Explanation:** The user has asked for snacks, I will choose two items and bring them. I will bring jalapeno chips and an apple.

**Plan:** 1. `find(jalapeno chips)`, 2. `pick(jalapeno chips)`, 3. `find(user)`, 4. `put(jalapeno chips)`, 5. `find(apple)`, 6. `pick(apple)`, 7. `find(user)`, 8. `put(apple)`, 9. `done()`.

**Human:** How would you bring me something to eat that isn't a fruit?

**Explanation:** The user has asked for a food that isn't a fruit, I will bring an energy bar to them.

**Plan:** 1. `find(energy bar)`, 2. `pick(energy bar)`, 3. `find(user)`, 4. `put(energy bar)`, 5. `done()`.

**Human:** How would you put the rice chips in the bowl and then move the tea to the table?

**Explanation:** The user has asked me to do two tasks, I will do one and then the other.

**Plan:** 1. `find(rice chips)`, 2. `pick(rice chips)`, 3. `find(bowl)`, 4. `put(rice chips)`, 5. `find(tea)`, 6. `pick(tea)`, 7. `find(table)`, 8. `put(tea)`, 9. `done()`.

**Human:** How would you throw away a redbull?

**Explanation:** The user has asked me to throw away the redbull, I will move it to the trash.

**Plan:** 1. `find(redbull)`, 2. `pick(redbull)`, 3. `find(trash)`, 4. `put(redbull)`, 5. `done()`.

**Human:** Bring me a drink.

**Explanation:** The user has asked for a drink and there are many options. I will bring them a water.

**Plan:** 1. `find(water)`, 2. `pick(water)`, 3. `find(user)`, 4. `put(water)`, 5. `done()`.

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## H Appendix: Alternate Annotators for MWP

Table 29: Few-shot exemplars for full chain of thought prompt for math word problems. These exemplars are the same as in Table 20, except that the chains of thought were written by a different annotator (“Annotator B” instead of “Annotator A”). Annotators were co-authors and familiar with the goal of chain of thought prompting.

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### **PROMPT FOR MATH WORD PROBLEMS**

**Q:** There are 15 trees in the grove. Grove workers will plant trees in the grove today. After they are done, there will be 21 trees. How many trees did the grove workers plant today?

**A:** There are 21 trees now and there are 15 trees in the beginning, so the workers plant  $21 - 15 = 6$  trees. The answer is 6.

**Q:** If there are 3 cars in the parking lot and 2 more cars arrive, how many cars are in the parking lot?

**A:** There are 3 cars in the beginning, 2 more arrive, so now there should be  $3 + 2 = 5$  cars. The answer is 5.

**Q:** Leah had 32 chocolates and her sister had 42. If they ate 35, how many pieces do they have left in total?

**A:** Leah had 32 chocolates and her sister had 42, in total they have  $32 + 42 = 74$  chocolates. After they ate 35, now there are  $74 - 35 = 39$  chocolates. The answer is 39.

**Q:** Jason had 20 lollipops. He gave Denny some lollipops. Now Jason has 12 lollipops. How many lollipops did Jason give to Denny?

**A:** Jason started with 20 lollipops, but now he only has 12, so he gave Denny  $20 - 12 = 8$  lollipops. The answer is 8.

**Q:** Shawn has five toys. For Christmas, he got two toys each from his mom and dad. How many toys does he have now?

**A:** Shawn got 2 toys each from his mom and dad, so he got  $2 * 2 = 4$  more, now he will have  $5 + 4 = 9$  toys. The answer is 9.

**Q:** There were nine computers in the server room. Five more computers were installed each day, from monday to thursday. How many computers are now in the server room?

**A:** 5 computers were installed from monday to thursday, so in total  $5 * 4 = 20$  computers are installed. 9 computers are there in the beginning, so now there are  $20 + 9 = 29$  computers. The answer is 29.

**Q:** Michael had 58 golf balls. On tuesday, he lost 23 golf balls. On wednesday, he lost 2 more. How many golf balls did he have at the end of wednesday?

**A:** Michael started with 58 golf balls and lost 23, so he has  $58 - 23 = 35$ . After he lost 2 more, he has  $35 - 2 = 33$  balls now. The answer is 33.

**Q:** Olivia has \$23. She bought five bagels for \$3 each. How much money does she have left?

**A:** 5 bagels for \$3 each should cost  $5 * 3 = 15$  dollars. Olivia had \$23 in the beginning, so now she has  $23 - 15 = 8$  dollars left. The answer is 8.

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