#### (a) Few-shot Q: Roger has 5 tennis balls. He buys 2 more cans of tennis balls. Each can has 3 tennis balls. How many tennis balls does he have now? A: The answer is 11. Q: A juggler can juggle 16 balls. Half of the balls are golf balls, and half of the golf balls are blue. How many blue golf balls are there? A: (Output) The answer is 8. X (c) Zero-shot

# Q: A juggler can juggle 16 balls. Half of the balls are golf balls, and half of the golf balls are blue. How many blue golf balls are

## there? A: The answer (arabic numerals) is

(Output) 8 X

### Q: Roger has 5 tennis balls. He buys 2 more cans of tennis

tennis balls. 5 + 6 = 11. The answer is 11.

he have now?

Q: A juggler can juggle 16 balls. Half of the balls are golf balls, and half of the golf balls are blue. How many blue golf balls are there? A: (Output) The juggler can juggle 16 balls. Half of the balls are golf

(b) Few-shot-CoT

balls. Each can has 3 tennis balls. How many tennis balls does

A: Roger started with 5 balls. 2 cans of 3 tennis balls each is 6

#### (d) Zero-shot-CoT (Ours)

Q: A juggler can juggle 16 balls. Half of the balls are golf balls,

balls. So there are 16 / 2 = 8 golf balls. Half of the golf balls are blue. So there are 8/2 = 4 blue golf balls. The answer is 4.

and half of the golf balls are blue. How many blue golf balls are there? A: Let's think step by step.

(Output) There are 16 balls in total. Half of the balls are golf balls. That means that there are 8 golf balls. Half of the golf balls are blue. That means that there are 4 blue golf balls.