

## Question 5

### Question 5

1 point possible (graded)

After the previous step of the evaluation we are left with:

`(foo (+ 1 1) 4)`  `(foo 2 4)`

What is the next step of the evaluation and what does that leave us with?

- ☐ Replace a and b with 2 and 4 everywhere.

```
(define (foo 2 4)
  (+ (* 3 2)
     4
     (* 4 2)))

(foo 2 4)
```

- ☒ Replace `(foo 2 4)` with the body of `foo` in which we replace all occurrences of `a` with 2, and `b` with 4.

```
(+ (* 3 2)
   4
   (* 4 2))
```



- ☐ Replace `(foo 2 4)` with the body of `foo`.

```
(+ (* 3 a)
   b
   (* b a))
```

#### Explanation

According to the rules for evaluating function calls, the first step is to replace the function call by the body of the function in which every occurrence of the parameters `a` and `b` are replaced by the corresponding arguments 2 and 4.

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 Answers are displayed within the problem