Questions 4-6

Question 4

1 point possible (graded)
What is the next step in the following evaluation?

Step 0: `(/ (* 3 4) (+ (- 7 4) 3))`

Step 1: `(/ 12 (+ (- 7 4) 3))`

Step 2: _____

| (/ 12 (+ 3 3)) |

Answer: (/ 12 (+ 3 3))

Explanation
The second operand to / is an expression, so it must be evaluated. And the first operand to + is an expression, so it must be evaluated. All of the operands to - are values, so - can be called with 7 and 4 as arguments. This replaces the - call expression with 3.

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Question 5

1 point possible (graded)
What is the next step in the following evaluation?

Step 0: `(/ (* 3 4) (+ (- 7 4) 3))`

Step 1: `(/ 12 (+ (- 7 4) 3))`

Step 2: `(/ 12 (+ 3 3))`

Step 3: _____

| (/ 12 6) |

Answer: (/ 12 6)

Explanation:
All of the operands to + have been evaluated, so + can be called with the arguments 3 and 3.

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Question 6

1 point possible (graded)
What is the next step in the following evaluation?

Step 0: `(/ (* 3 4) (+ (- 7 4) 3))`

Step 1: `(/ 12 (+ (- 7 4) 3))`

Step 2: `(/ 12 (+ 3 3))`

Step 3: `(/ 12 6)`

Step 4: _____

| 2 |

Answer: 2

Explanation:
All of the operands to / have been evaluated, so the primitive can be called with the arguments 12 and 6.

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