Answer saved

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P Flag question

Zinc (65.37 g/mol) is determined by precipitating and weighing Zn₂Fe (CN) ₆ (342.70 g/mol). What mass of zinc in grams is contained in a sample that gives 0.438 g precipitate?

- O a. 2.19
- o b. 0.167
- O c. 0.334

O d. 2..30

Done

Edit

Question 7

Answer saved

Marked out of 1.00

P Flag question

What is the concentration in ppm of a 1.5 x 10⁻³ molal solution of NaCl (58.5 g/mol)?

• a. 88 ppm

• b. 8.8 ppm

• d. 1.5 ppm

Clear my choice

More

Answer saved

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P Flag question

Which one of the following precipitates is more soluble in its saturated solution?

- O b. AgI $(K_{sp} = 8.3 \times 10^{-17})$
- O C. AgBr (K_{sp} = 5.0 £ 10 13)

O d.
$$Ag_2CrO_4 (K_{sp} = 1.2 \times 10^{-12})$$

Clear my choice

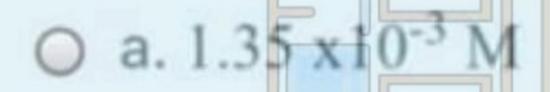
Next page

Answer saved

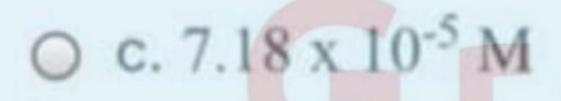
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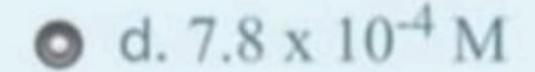
P Flag question

Given that the solubility product for La(IO₃)₃ is 1.0 x 10⁻¹¹, what is the concentration of La³⁺ in a saturated solution of lanthanum iodate?









Answer saved

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P Flag question

Zinc (65.37 g/mol) is determined by precipitating and weighing Zn₂Fe (CN) ₆ (342.70 g/mol). What mass of zinc in grams is contained in a sample that gives 0.438 g precipitate?

- O a. 2.19
- o b. 0.167
- O c. 0.334
- O d. 2..30

Answer saved

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Flag question

A student performs an experiment to determine the density of a sugar solution. She obtains the following results: 4.71 g/mL, 4.73 g/mL, 4.67 g/mL, 4.69 g/mL. If the actual value for the density of the sugar solution is 4.40 g/mL, which statement below best describes her results?

- O a. Her results are both precise and accurate
- b. Her results are precise, but not accurate
- c. Her results are accurate, but not precise
- d. It isn't possible to determine with the information given

P Flag question

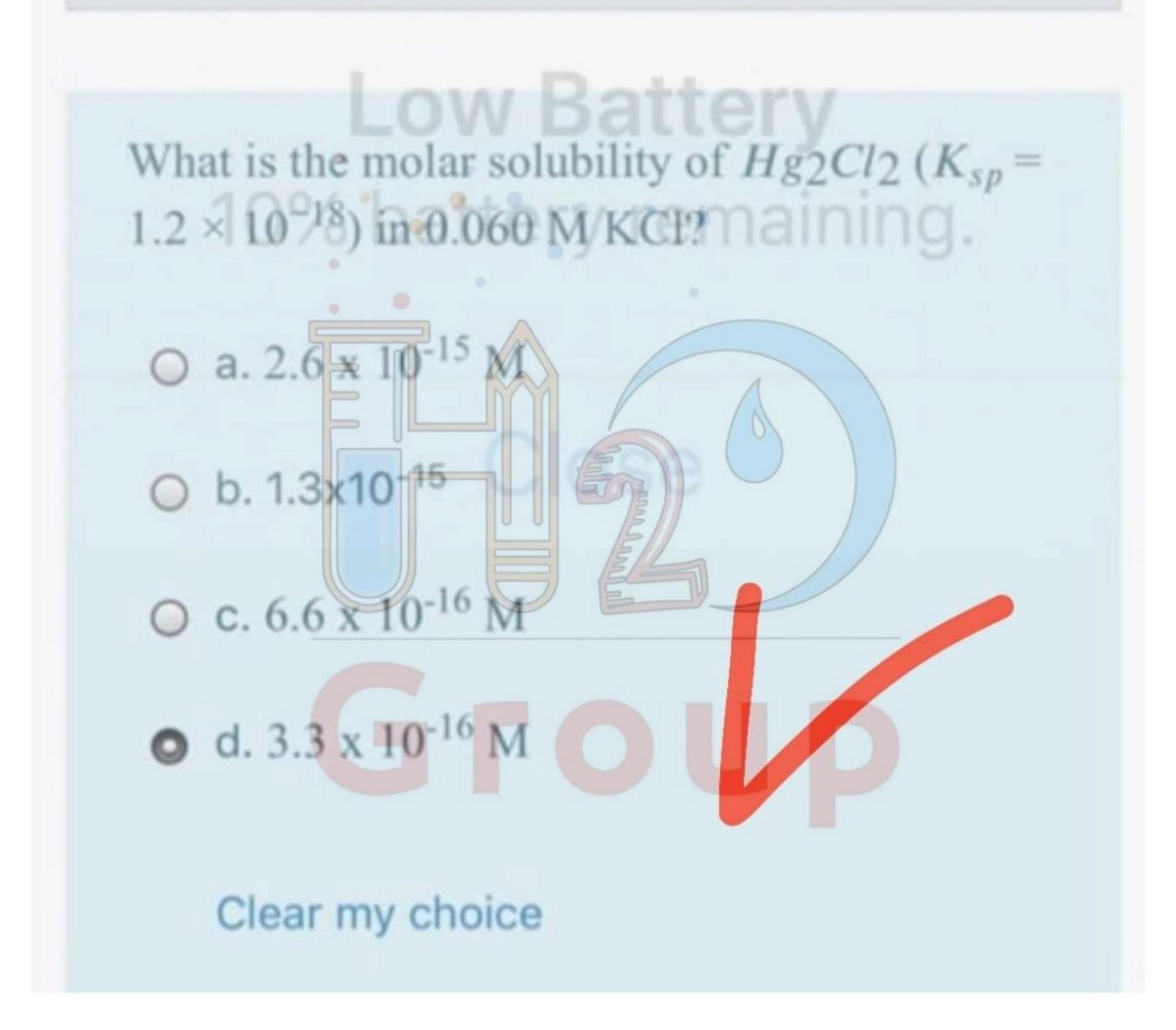
Determination of the sodium level in separate portions of a blood sample by ion-selective electrode measurement gave the following results: 139.2, 139.8, 140.1, and 139.4 meq/L. What is the range within which the true value falls, assuming no determinate error at the 99% confidence level (t at 99% confidence level = 5.84)

- O a. 139.6 ± 0.6
- O b. 139.6 ± 0.5
- O c. 139.6 ± 1.5
- o d. 139.6 ± 1.2

Answer saved

Marked out of 1.00

P Flag question



Answer saved

Marked out of 1.00

P Flag question

The following replicates are obtained for analysis of calcium in drinking water: 23.4, 23.2, 22.8, 26.0, 24.0 and 23.0 ppm. After applying Grubbs Test, the mean is—— and the standard deviation is——. Use G_{table} = 1.822

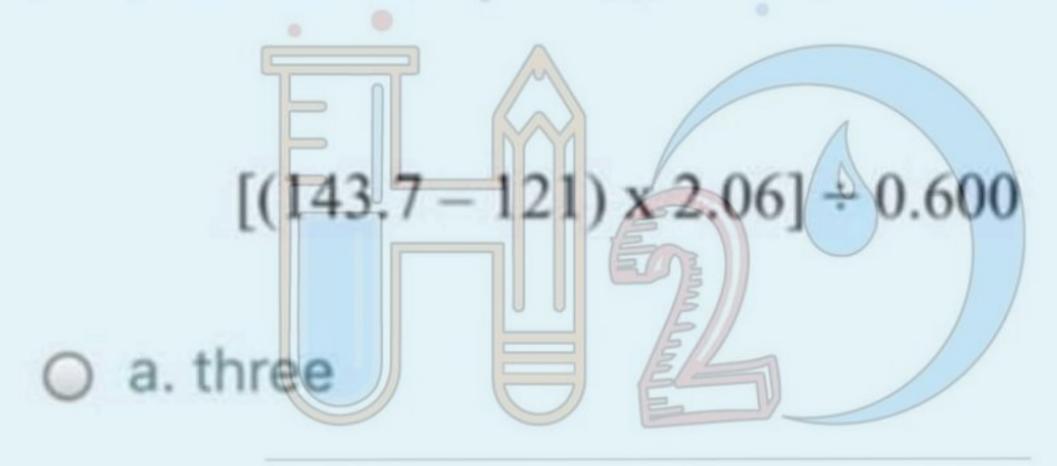
- o a. 23.7 and 1.2
- O b. 23.7 and 0.5
- O c. 23.3 and 1.2
- O d. 23.3 and 0.5

Answer saved

Marked out of 1.00

Flag question

How many significant figures are there in the answer for the following calculations?



O b. four

o c. two

O d. one

Answer saved

Marked out of 1.00

P Flag question

What concentration of Ag⁺ is required to precipitate ONLY AgBr in a solution that contains both Br and Cl at a concentration of 0.040 M?

$$K_{sp}$$
 of AgCt = 1.6 x 10⁻¹⁰ and K_{sp} of AgBr = 7.7 x 10⁻¹³

O a.
$$1.0 \times 10^{-11} \text{ M} \times [Ag+] < 2.0 \times 10^{-9} \text{ M}$$

• b.
$$1.9 \times 10^{-11} \text{ M} < [Ag+] < 4.0 \times 10^{-9} \text{ M}$$

$$\odot$$
 c. $1.0 \times 10^{-11} \text{ M} < [Ag+] < 2.0 \times 10^{-9} \text{ M}$

Answer saved

Marked out of 1.00

P Flag question

Which of the following statement is most correct?

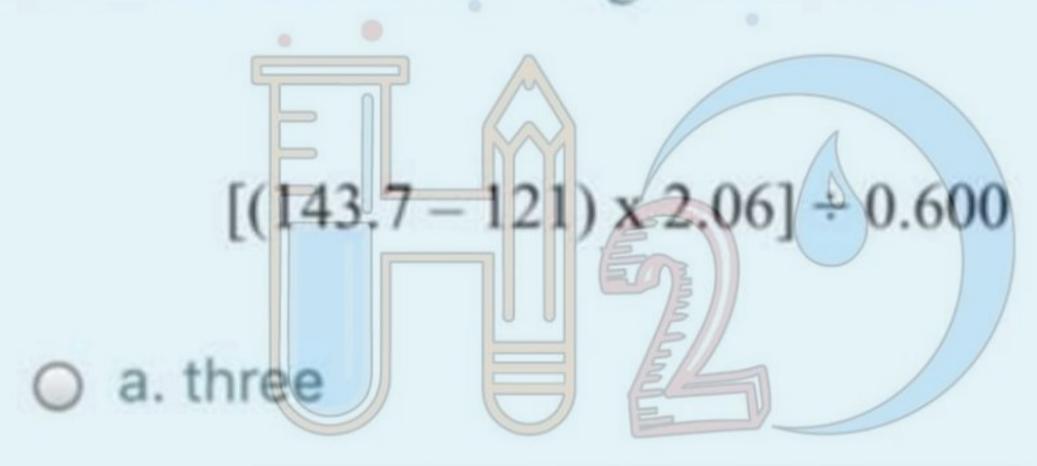
- a. Disturbance of an equilibrium system
 result in a shift of equilibrium position
- b. Adding more reactants for a reaction at equilibrium decreases the value of K
- c. Always salts with the same value of K_{sp}
 have similar solubility
- d. At equilibrium no more reactants are transformed into products

Answer saved

Marked out of 1.00

Flag question

How many significant figures are there in the answer for the following calculations?



o b. four F F O U P

o c. two

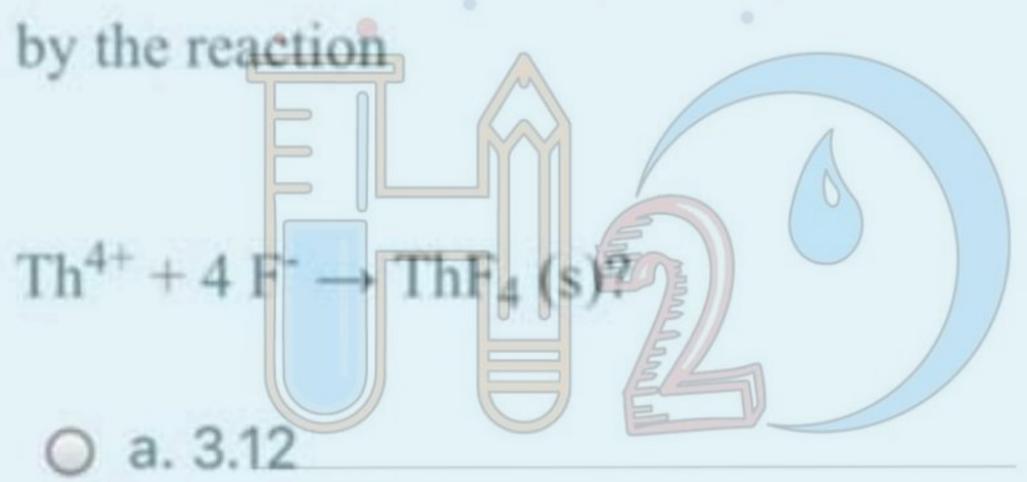
O d. one

Answer saved

Marked out of 1.00

P Flag question

How many grams of 2.50 % by mass aqueous HF (20.0 g/mol) are required to provide 20 % excess to react with 50.0 mL of 0.0325 M Th⁴⁺

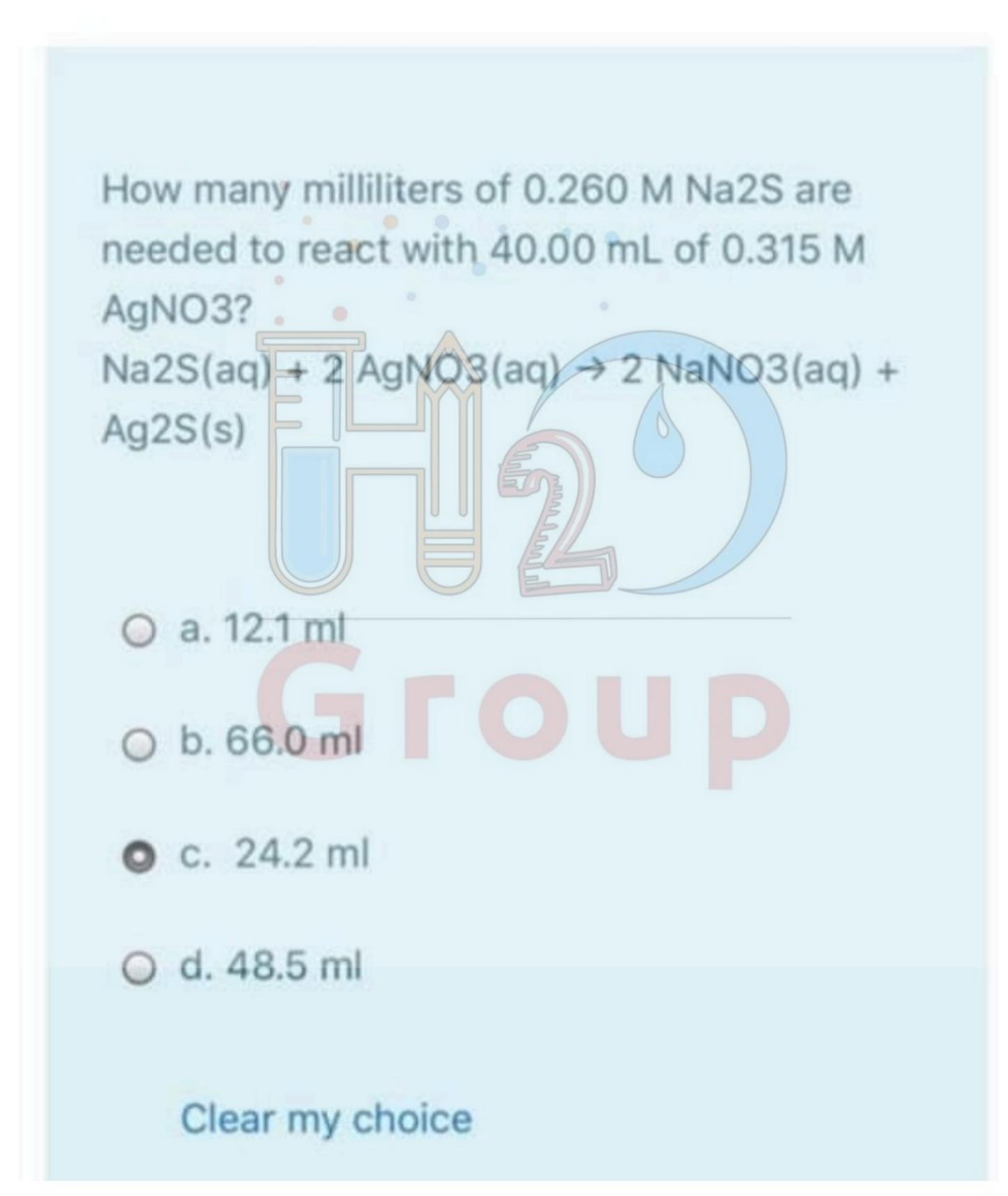


- o b. 25.0 [O U D
- O c. 6.24
- o d. 12,5

Answer saved

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P Flag question



Answer saved

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P Flag question

At 700 K, the reaction $2SO_2(g) + O_2(g)$

- == $2SO_3(g)$ has the equilibrium constant $K_c =$
- 4.3 $'10^6$, and the following concentrations are present: $[SO_2] = 0.10 \text{ M}$; $[SO_3] = 10 \text{ M}$; $[O_2]$

= 0.10 M

Is the mixture at equilibrium? If not at equilibrium, in which direction (as the equation is written), left to right or right to left, will the reaction proceed to reach equilibrium?

- a. There is not enough information to be able to predict the direction
- o b. No, right to left
- oc. No, left to right
- d. Yes, the mixture is at equilibrium