Which One Doesn't Belong – Acid-Base Properties

Question Group 1 Question 1

One of these representations is not like the others. Which one doesn't belong?



The pH is greater than 7.

The solution turns litmus paper **red**.

Question 2

One of these representations is not like the others. Which one doesn't belong?

The solution turns litmus paper **blue**.



The pH is less than 7.

One of these representations is not like the others. Which one doesn't belong?

The pH is greater than 7.

The solution turns litmus paper **red**.



Question Group 2 Question 4

One of these representations is not like the others. Which one doesn't belong?



The solution turns litmus paper **blue**.

The pH is less than 7.

One of these representations is not like the others. Which one doesn't belong?

The pH is greater than 7.



The solution turns litmus paper **red**.

Question 6

One of these representations is not like the others. Which one doesn't belong?

The solution turns litmus paper **blue**.

The pH is less than 7.



Question Group 3 Question 7

One of these representations is not like the others. Which one doesn't belong?

Meter Reading:



The solution is basic.



Question 8

One of these representations is not like the others. Which one doesn't belong?



Meter Reading:



The solution is acidic.

One of these representations is not like the others. Which one doesn't belong?

The solution is basic.





Question Group 4 Question 10

One of these representations is not like the others. Which one doesn't belong?

Meter Reading:



The solution is acidic.



One of these representations is not like the others. Which one doesn't belong?





The solution is acidic.

Question 12

One of these representations is not like the others. Which one doesn't belong?

The solution is basic.



Meter Reading:



Question Group 5 Question 13

One of these representations is not like the others. Which one doesn't belong?

The pH value is greater than the pOH value.

Meter Reading:



The solution turns litmus paper **red**.

The [H₃O+] is greater than the [OH-].

One of these representations is not like the others. Which one doesn't belong?

The pH value is greater than the pOH value.

The [H₃O+] is greater than the [OH-].

Meter Reading:



The solution turns litmus paper **blue**.

One of these representations is not like the others. Which one doesn't belong?

The solution turns litmus paper **red**.

The [H₃O⁺] is less than the [OH⁻].

The pH value is greater than the pOH value.

Meter Reading:



Question Group 6 Question 16

One of these representations is not like the others. Which one doesn't belong?

Meter Reading:



The pH value is less than the pOH value.

The solution turns litmus paper **blue**.

The [H₃O+] is greater than the [OH-].

One of these representations is not like the others. Which one doesn't belong?

The [H₃O⁺] is less than the [OH⁻].

Meter Reading:



The pH value is less than the pOH value.

The solution turns litmus paper **red**.

One of these representations is not like the others. Which one doesn't belong?

The solution turns litmus paper **blue**.

The [H₃O⁺] is less than the [OH⁻].

Meter Reading:



The pH value is less than the pOH value.

Question Group 7 Question 19

One of these representations is not like the others. Which one doesn't belong?

The [OH-] is greater than the [H₃O+].

Has a slippery feel.



$$[H_3O^+] =$$

8.5 x 10⁻³ M

One of these representations is not like the others. Which one doesn't belong?

Meter Reading:



The [OH⁻] is less than the [H₃O⁺].

$$[H_3O^+] =$$

8.5 x 10⁻³ M



One of these representations is not like the others. Which one doesn't belong?

$$[H_3O^+] =$$

4.5 x 10⁻¹⁰ M

Meter Reading:



Has a slippery feel.

Question Group 8 Question 22

One of these representations is not like the others. Which one doesn't belong?

Reacts with Mg to produce H₂ gas.

The [H₃O+] is greater than the [OH-].

Meter Reading:





One of these representations is not like the others. Which one doesn't belong?

Reacts with Mg to produce H₂ gas.



Meter Reading:



One of these representations is not like the others. Which one doesn't belong?

Has a slippery feel.







$$[OH^{-}] =$$
 $4.5 \times 10^{-10} M$

Question Group 9 Question 25

One of these representations is not like the others. Which one doesn't belong?

[OH⁻] = 4.5 x 10⁻¹⁰ M



Turns pH paper ...



The pH value is greater than the pOH value.



One of these representations is not like the others. Which one doesn't belong?

Turns pH paper ...





The solution turns litmus paper **blue**.



 $[OH^{-}] =$ 9.2 x 10⁻⁵ M

One of these representations is not like the others. Which one doesn't belong?

Turns pH paper ...

Reacts with metals to produce H₂ gas.

The [H₃O⁺] is greater than the [OH⁻].

Has a sour taste.



Question Group 10 Question 28

One of these representations is not like the others. Which one doesn't belong?

The pH value is less than the pOH value.





Turns pH paper ...



The solution turns litmus paper **blue**.

One of these representations is not like the others. Which one doesn't belong?



Reacts with metals to produce H₂ gas.

The pOH is less than 7.

The pH value is less than the pOH value.

Turns pH paper ...



One of these representations is not like the others. Which one doesn't belong?

Tastes sour.

Turns pH paper ...



The pH value is less than the pOH value.





Question Group 11 Question 31

One of these representations is not like the others. Which one doesn't belong?

The pH of the solution is 8.5.

The pH value is greater than the pOH value.





The solution turns litmus paper **blue**.



One of these representations is not like the others. Which one doesn't belong?



The solution turns litmus paper **red**.

Meter Reading:



The pH of the solution is 4.5.

The pH value is greater than the pOH value.

One of these representations is not like the others. Which one doesn't belong?



The [H₃O⁺] is less than the [OH⁻].

The pOH of the solution is 8.5.

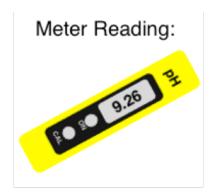


The solution turns litmus paper **red**.

Question Group 12 Question 34

One of these representations is not like the others. Which one doesn't belong?

The solution turns litmus paper **blue**.



The pH value is less than the pOH value.

The pOH of the solution is 4.5.

The $[H_3O^+]$ is less than the $[OH^-]$.

One of these representations is not like the others. Which one doesn't belong?

The pOH of the solution is 4.5.



The [H₃O⁺] is less than the [OH⁻].

The pH value is less than the pOH value.

The solution turns litmus paper **blue**.

One of these representations is not like the others. Which one doesn't belong?



The [H₃O+] is less than the [OH-].

The solution turns litmus paper **red**.



The pOH of the solution is 4.5.