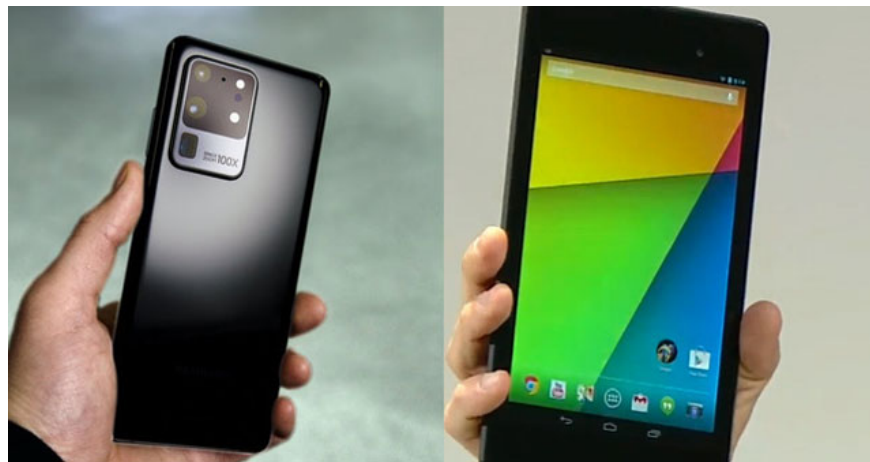


Galaxy S20 Ultra 6.9 inch screen, Nexus 7 7 inch screen, 2 screens equally large?

Galaxy S20 Ultra 6.9-inch screen and Nexus 7 7-inch screen, are these two screens the same size? The answer below will surprise you.

Galaxy S20 Ultra 6.9-inch screen and Nexus 7 7-inch screen, are these two screens the same size? The answer below will surprise you.

Galaxy S20 Ultra, Samsung's newly launched product with a screen size of 6.9 inches, is the largest non-folding smartphone with the current screen.



When presenting products, manufacturers only announce the diagonal dimensions, not the display area. The diagonal dimensions according to Pythagoras formula are calculated as follows:

$$cd^2 + cr^2 = dc^2$$

Inside:

Cd is the length, cr is the width, and dc is the diagonal size.

Based on the aspect ratio, we can calculate the length and width of the screen. Galaxy S20 Ultra has a screen aspect ratio of 20: 9, so:

$$cd^2 + (cd * 9/20)^2 = (6.9)^2 \Rightarrow cd^2 = 47.61 / (481/400) = 6.3 \text{ inches}$$

Thus, the screen size of the Galaxy S20 Ultra after rounding is approximately 6.3in x 2.83in.



Galaxy S20 Ultra has a 6.9-inch screen.

With Nexus 7 7-inch screen and 16:10 aspect ratio, after applying the above formula we get the actual size of 5.94in x 3.71in.

Taking 2 divided display areas, we see that the diagonal is only 0.1 inch difference only but the screen of Nexus 7 is 23% larger than the Galaxy S20 Ultra screen.

This indicates that the same "square" screen diagonal index will give a larger display area.



The 7.9-inch iPad Mini has a screen size of 6.3in x 4.74 inches, which is 67% larger than the Galaxy S20 Ultra, although the diagonal is only an inch more.

Thus, the display area of the tablet is still much larger than the smartphone although the diagonal length is nearly equal.

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