Evaluate the following expressions. You may work with a partner, or work individually. After you have completed the warm-up, check answers and briefly discuss solutions as a whole class.

23 = 8 3232 = 34 or 81 4-2 = 1/42 or 1/16

(-3)3 =- 27 (22)-3 = 1/23 or 1/8 (-2)-4 = 1/(-2)4 or 1/16

Explain what happens when a number is raised to a negative power.

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Is raising a negative number to a power the same as raising a number to a negative power? Why?

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