You must completely simplify the numerator before dividing.

$$\frac{\left(2+2^3\right)^2}{5} = \frac{(2+8)^2}{5} = \frac{(10)^2}{5}$$

At this point, you may have divided 10 by 5 before computing the exponent. Here is the correct computation:

$$\frac{(10)^2}{5} = \frac{100}{5} = 20$$

The correct answer is 20.