(1) Consider a function $f(x)$ with the property that $\lim _{x \rightarrow a} f(x)=0$.

Now consider another function $g(x)$ also defined near $a$.
True or False. $\lim _{x \rightarrow a}[f(x) g(x)]=0$.
(a) True, and I am confident.
(b) True, and I am not confident.
(c) False, and I am not confident.
(d) False, and I am confident.
(2) You decide to estimate $e^{2}$ by squaring longer and longer decimal approximations of $e=2.71828 \ldots$.
(a) This is a good idea because $e$ is a rational number.
(b) This is a good idea because $y=x^{2}$ is a continuous function.
(c) This is a bad idea because $e$ is irrational.
(d) This is a good idea because $y=e^{x}$ is a continuous function.
(3) True or False. You were once exactly 3 feet tall.
(a) True, and I am confident.
(b) True, and I am not confident.
(c) False, and I am not confident.
(d) False, and I am confident.
(4) Suppose that during half-time at a basketball game the score of the home team was 36 points.

True or False: There had to be at least one moment in the first half when the home team had exactly 25 points.
(a) True, and I am confident.
(b) True, and I am not confident.
(c) False, and I am not confident.
(d) False, and I am confident.

