ASTRONOMY 102 MATH QUIZ

Write the letter in the space beside the question.

A. B. C. D.	3 1
В. С.	4. In a particular problem that you are considering there are two quantities, A and B . If $A \propto B^2$ (' A is proportional to B squared'), then if I double B , what happens to A ? It increases by 4 It doubles too It increases by 16 It stays the same
В.	5. You have square floor tiles which are $1m\times 1m$. How many could you fit into a room which is $10m\times 10m$?
C.	7. How many 1 cm radius balls could you make out of a giant 1 m radius ball of silly putty? 1 100 10,000 1,000,000
A. B. C. D.	8. If I inflate a balloon to twice its radius, what is the ratio of the new density to the old density of air inside the balloon? same $\frac{1/2}{1/8}$ $\frac{1}{16}$