

AMC 8 Day 1 Odd & Even Number

1	(1分)The average of two odd numbers is always a number.			
	A. odd	B. even	C. prime	D. whole
2	(1分)If n and m are integers and n^3+m^3 is even, which of the following is impossible?			
	(Adapted from 2014 AMC 8 Problem, Question #13)			
	A. $\it n$ and $\it m$ are even		B. $\it n$ and $\it m$ are odd	
	C. $n+m$ is even		D. $n+m$ is odd	
	E. none of these are impossible			
3	(1分)Suppose m and n are positive even integers. Which of the following must be an odd			
	integer? (Adapted from 2005 AMC 8 Problem, Question #8)			
	A. $m+2n$	$3m-n$ C. $3m^2$	$+3n^2$ D. $(nm+3)^2$	E. 3mn
4	(1分)If n is an integer, then $$? must be even.			
	A. n+1	B. <i>n</i> + 2		D. $2 \times n + 2$
	E. $3 \times n$			
5	(1分)Let o be an even whole number and let n be any whole number. Which of the following statements about the whole number $(1+o\times n)^2$ is always true? (Adapeted from 1986 AJHSN			
	Problem, Question #17)			
	A. it is always odd		B. it is always even	
	C. it is even only if n is even		D. it is odd only if n is odd	
	E. it is odd only if n is even			