## SAT 数学考试练习题及解析 1

1． 1453006101230

In the above sequence every term after the first is formed by multiplying by x and then adding y ，where x and y are positive integers．What is the value of $\mathrm{x}+\mathrm{y}$ ？

2．A confectioner has 500 mint， 500 orange and 500 strawberry flavored sweets．He wishes to make packets containing 40 mint， 5 orange and 5 strawberry sweets．What is the maximum number of packets of this type hecean make？
3．If $S$ is the sum of $8,6,4,2$ and $x$ ，what must be the value of $x$ for x to equal $1 / 5 \mathrm{~S}$ ？
4． 25 percent of 600 is equato per ce
5．What is the maximum number of points ofrintersection of four distinct lines in a plane？

6．If one edge of a 6－inch ruleras to be marked in $1 / 10$ inch units，how many marks will there be on the edge including the $\theta$ and 6 inch marks

7．If the area of the right triangle above is 72 ，what is the value
of $x$ ？

8．Given that the sum of the odd integers from 1 to 99 inclusive is 2500 ，what is the sum of the even integers from 2 to 100 inclusive？

9．In a certain game of 50 questions，the final score is calculated by subtracting twice the number of wrong answers from the total number of correct answers．If a player attempted all questions and received a final score of 35 ，how many wrong answers did he give？

10．Family 1 comprising mother，father and son are to be seated at a table with family 2 comprising mother，father and daughter．The layout of the table is shown in the

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diagram．F represents one of the fathers and $M$ represents one of the mothers．X represents any family member but with the condition that a male family member must sit opposite a female of the other family．How many different seating plans are possible？

## 参考答案：

## 1．Correct Answer： 12

Explanation：

Look for a simple relation between the numbers．So if we try multiplying by 2，then 145 becomes 290，to which we need to add 10 to make 300 ．（If we tried multiplying by 3 the number would be too large．Check with the third term；doubling 300 gives 600 and adding 10 gives 610．So this is the relation，and $\mathrm{x}=2$ ，and $\mathrm{y}=10 . \mathrm{x}+$ $\mathrm{y}=12$

## 2．Correct Answer： 50

Explanation：


