## 第二套

1．What is the sum of all the positive integer factors of 12 ？
2．The average IQ of 4 people is 110 ．If three people each have an IQ of 105 ，what is the IQ of the fourth person？
3．Of 60 students in a class $2 / 3$ are girls，and $2 / 5$ of the class are taking music lessons．What is the maximum number of girls that are not taking music lessons？
4．If $2^{n+1}=8$ ，what is the value of $n$ ？


5．In the figure above，$A D=A C=C B$ ．
If the value of $y$ is 28 ，what is the value of $x$ ？
6．One gallon of fuel mixture contains antifreeze in the ratio of 5 parts fuel to ohe part antifreeze．To this is added half a gallon of mixture which is one third antifreeze and two thirds fuel．What is the ratio of fuel to antifreeze in the final mixture？（Grid your answer as afraction fuel／antifreeze）


7．Two dials O and P have pointers that start from the vertical position as shown．Pointer O rotates anticlockwise at a rate of 5 degrees per second and pointer $P$ rotates clockwise at 9 degrees per second．How many complete revolutions will P have made when O completes 335 complete revolutions？

8．What is the total surface area of 2 identical cubes which together have a volume of 1458 units？
9．$N\{12,18,2,6\}$
P \｛1，4，2，3\}
If $n$ and $p$ are to be selected at random from sets $N$ and $P$ respectively，what is the probability that $n / 2 p$ will be a member of set $P$ ？
10．If $f(x)=(12>x)^{3 / 2}$ ，and $n=f(3)$ ，what is the value of $2 n$ ？

