1	Write	53	100	000	in	standard form	
1	WILLE	23	400	UUU	ın	standard torm	

## 2 A doctor starts work at 2040 and finishes work at 0610 the next day.

How long is the doctor at work?

Give your answer in hours and minutes.

$$\begin{array}{r}
06:10 + 24h \rightarrow 30:10 \rightarrow 29:70 \\
20:40 - 20:40 - 20:40 - 9:30 \\
= 9 \text{ hours } 30 \text{ minutes}
\end{array}$$

$$81^x = 3$$

Find the value of x.

$$81^{\times} = 3$$
 $(3^{4})^{\times} = 3^{1}$ 
 $3^{4\times} = 3^{1}$ 
 $4\times = 1$ 
 $\times = \frac{1}{4}$ 

 $Answer x = \frac{1}{4}$  [1]

## 4 7 9 20 3 9

(a) A number is removed from this list and the median and range do not change.

Write down this number. Remove 7  $379920 \Rightarrow 39920$  Me = 9 Remove 7  $Me = \frac{9+9}{2} = 9$  Remove 7 Remove 7Re

(b) An extra number is included in the original list and the mode does not change.

Write down a possible value for this number.

Answer(b) [1]