

## Puzzle 1: please use this sheet for working

$A$ ,  $B$ ,  $C$  and  $D$  are functions.

$$1235 \rightarrow C \rightarrow D = 5323$$

$$4253 \rightarrow D \rightarrow A = 43524$$

$$54513 \rightarrow C \rightarrow B = 545$$

$$4551 \rightarrow A \rightarrow C = 34553$$

$$1223 \rightarrow B \rightarrow D = 31$$

$$3243 \rightarrow A \rightarrow B = 243$$

$$\therefore 24132 \rightarrow A \rightarrow C \rightarrow B \rightarrow D \rightarrow A = ?$$