6. Possible numbers = $9 \times 10 \times 10 \times 10 \times 10 = 90,000$ \checkmark

Possible numbers = $4 \times 4 \times 3 \times 2 \times 1 = 96$

9. Number of ways = $4 \times 3 \times 2 \times 1 = 24$

8. Number of ways = $6 \times 5 \times 4 \times 3 \times 2 \times 1 = 720$ \checkmark

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