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| **Match-Up** | **Product Rule for Counting** |

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| **1** | How many ways are there of arranging the letters in the word NUMBER? |  | **A** | $$120$$ |
| **2** | How many ways are there of rearranging the numbers 2, 3, 4 and 5 to make a four-digit number? |  | **B** | $$504$$ |
| **3** | Five people are queueing for a bus. How many different ways can the people be arranged in the queue? |  | **C** | $$12$$ |
| **4** | A door code consists of three digits. Each digit can be any number from 1 to 9. How many possible codes are there? |  | **D** | $$60$$ |
| **5** | A menu has a choice of 5 starters, 6 mains and 5 deserts. How many possible ways are there to choose a 3-course meal? |  | **E** | $$729$$ |
| **6** | How many four-digit even numbers can be made using the numbers 5, 6, 7 and 8 once each?  |  | **F** | $$720$$ |
| **7** | A safe has a three-digit code. Each digit can be any number from 1 to 9, but the same number cannot be used more than once. How many possible codes are there? |  | **G** | $$552$$ |
| **8** | Class 7Z contains 24 students. How many different ways are there of choosing a form captain and deputy form captain? |  | **H** | $$276$$ |
| **9** | A dog creche has 24 dogs. A staff member wants to take two dogs for a walk. How different ways are there to choose the two dogs? |  | **I** | $$24$$ |
| **10** | At a wedding there are six bridesmaids and four page boys. The photographer chooses two bridesmaids and one page boy for a photo. How many different ways are there of choosing? |  | **J** | $$150$$ |

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| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
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