Practice worksheet | Counting and introductory statistics

Multiplication principle

Name: _____ Date: _____

6 questions | 14 marks

1. There are 5 sandwich fillings and 3 bread types. Count the sandwiches. [2 marks]

2. A four-digit PIN may use digits 0-9 repeatedly. Count the PINs. [2 marks]

3. A four-digit PIN has no repeated digits. Count it. [2 marks]

4. Choose a captain and then a different vice-captain from 8 players. Count the choices. [2 marks]

5. A password is either two letters A-D followed by a digit 0-9, or one letter A-D followed by two digits. Repetition is allowed. Count all passwords. [3 marks]

6. A student claims three tasks with 4, 2 and 3 choices have $4 + 2 + 3 = 9$ complete outcomes. Explain and correct the error. [3 marks]