Practice worksheet | Counting and introductory statistics

Combinations

Name: _____ Date: _____

6 questions | 14 marks

1. Choose 4 students from a group of 9. Count the groups. [2 marks]

2. Choose 2 red balls from 6 distinct red balls and 1 blue ball from 4 distinct blue balls. Count the selections. [2 marks]

3. Choose a team of 3 from 7 people, including one named person. Count the teams. [2 marks]

4. Choose 3 from 5 adults and 3 children. How many groups have exactly 2 adults? [2 marks]

5. How many 3-person groups from 8 include at least one of two named people? [3 marks]

6. Explain why $\binom{12}{10} = \binom{12}{2}$. Evaluate it. [3 marks]