PERMUTATIONS & COMBINATIONS · GRADE 12

Permutations & Combinations · Grade 12

Read each question carefully. They're not all the same kind of question.

Name _____ Date _____ Score _____ / 12

01 ${}_6P_5$ = _____

02 ${}_nP_2 = 30$, find n _____

03 ${}_9C_5$ = _____

04 ${}_nP_3 = 720$, find n _____

05 ${}_{12}C_2$ = _____

06 4! = _____

07 Seat 5 of 8 hosts: P or C? _____

08 Seat 5 of 6 hosts: P or C? _____

09 ${}_6P_3$ = _____

10 Greater: ${}_{11}P_4$ or ${}_9C_3$? _____

11 Greater: ${}_{11}P_3$ or ${}_7P_5$? _____

12 8! ÷ 4! = _____

Permutations & Combinations · Grade 12 (Answer Key)

Read each question carefully. They're not all the same kind of question.

01 ${}_6P_5$ = **720**

02 ${}_nP_2 = 30$, find n **6**

03 ${}_9C_5$ = **126**

04 ${}_nP_3 = 720$, find n **10**

05 ${}_{12}C_2$ = **66**

06 4! = **24**

07 Seat 5 of 8 hosts: P or C?

permutation

08 Seat 5 of 6 hosts: P or C?

permutation

09 ${}_6P_3$ = **120**

10 Greater: ${}_{11}P_4$ or ${}_9C_3$? **${}_{11}P_4$**

11 Greater: ${}_{11}P_3$ or ${}_7P_5$? **${}_7P_5$**

12 8! ÷ 4! = **1680**