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 Greater: ${}_{12}P_2$ or ${}_8C_3$? ____

02 Seat 5 of 6 hosts: P or C? ____

03 Seat 3 of 8 hosts: P or C? ____

04 3! = ____

05 ${}_8C_4$ = ____

06 ${}_nP_2 = 56$, find n ____

07 Greater: ${}_7C_2$ or ${}_{14}C_2$? ____

08 ${}_nC_2 = 10$, find n ____

09 ${}_{10}P_4$ = ____

10 ${}_9P_2$ = ____

11 ${}_7C_2$ = ____

12 ${}_{11}C_6$ = ____

Permutations & Combinations · Grade 12 (Answer Key)

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

01 Greater: ${}_{12}P_2$ or ${}_8C_3$? ${}_{12}P_2$

02 Seat 5 of 6 hosts: P or C?

permutation

03 Seat 3 of 8 hosts: P or C?

permutation

04 3! = **6**

05 ${}_8C_4$ = **70**

06 ${}_nP_2 = 56$, find n **8**

07 Greater: ${}_7C_2$ or ${}_{14}C_2$? ${}_{14}C_2$

08 ${}_nC_2 = 10$, find n **5**

09 ${}_{10}P_4$ = **5040**

10 ${}_9P_2$ = **72**

11 ${}_7C_2$ = **21**

12 ${}_{11}C_6$ = **462**