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 $5! \div 4! =$ _____

02 Take 2 of 6 flags: P or C? _____

03 Draw 2 of 7 cards: P or C? _____

04 $5! \div 3! =$ _____

05 ${}_6P_3 =$ _____

06 Order 2 of 4 songs: P or C? _____

07 ${}_5P_3 =$ _____

08 $8! \div 6! =$ _____

09 $8! \div 7! =$ _____

10 Take 2 of 8 flags: P or C? _____

11 ${}_8P_3 =$ _____

12 Order 3 of 4 songs: P or C? _____

Permutations & Combinations · Grade 12 (Answer Key)

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

01 $5! \div 4! =$ **5**

02 Take 2 of 6 flags: P or C?

combination

03 Draw 2 of 7 cards: P or C?

combination

04 $5! \div 3! =$ **20**

05 ${}_6P_3 =$ **120**

06 Order 2 of 4 songs: P or C?

permutation

07 ${}_5P_3 =$ **60**

08 $8! \div 6! =$ **56**

09 $8! \div 7! =$ **8**

10 Take 2 of 8 flags: P or C?

combination

11 ${}_8P_3 =$ **336**

12 Order 3 of 4 songs: P or C?

permutation