

Precalculus Practice S.CP.B.9: Permutations 1

www.jmap.org

NAME: _____

- Find: ${}_4P_2$
[A] 8 [B] 12 [C] 24 [D] 6
- Find: ${}_5P_4$
[A] 120 [B] 9 [C] 240 [D] 20
- Find: ${}_6P_5$
[A] 30 [B] 720 [C] 11 [D] 1440
- Use a calculator to evaluate ${}_7P_4$.
- Use a graphing calculator to determine ${}_{15}P_8$.
- For $r = 4$ and ${}_nP_r = 360$, what is the value of n ?
[A] 90 [B] 6 [C] 2 [D] 4 [E] 3
- If no digits can be used more than once, how many 2-digit numbers can be formed using only the digits 9, 1, 5, and 6?
[A] 9 [B] 10 [C] 6 [D] 12
- If no digits can be used more than once, how many 3-digit numbers can be formed using only the digits 5, 8, 2, 9, and 1?
[A] 57 [B] 58 [C] 60 [D] 30
- If no digits can be used more than once, how many 5-digit numbers can be formed using only the digits 2, 6, 9, 4, 3, and 0?
[A] 720 [B] 360 [C] 718 [D] 723
- What is the numerical probability that 5 digits chosen from the digits 1-5 will be chosen in numerical order?

Precalculus Practice S.CP.B.9: Permutations 1

www.jmap.org

[1] B

[2] A

[3] B

[4] 840

[5] 259,459,200

[6] B

[7] D

[8] C

[9] A

[10] $\frac{1}{120}$