

Session Name: 09 - Enumeration 9-26-2023 11-54 AM

Date Created: 9/26/23, 11:48:09 AM Active Participants: 59 of 73

Average Score: 43.50% Questions: 6

Results by Question

1. Please do Question 1 which is displayed on the screen in class. (Short Answer)

Responses		
	Percent	Count
12! (c)	87.72%	50
?	3.51%	2
N CHOOSE K	3.51%	2
12	1.75%	1
12CHOOSE1	1.75%	1
479001600	1.75%	1
Totals	100%	57

Keyword(s): 12!
Keyword Matches: 50

N CHOOSE K ₁₂

12!

12CHOOSE1 ? 479001600

2. Please do Question 2 which is displayed on the screen in class. (Short Answer)

Responses		
	Percent	Count
$5^{*}10 (c)$	27.27%	15
10 CHOOSE 5	16.36%	9
$10^{*}5$	16.36%	9
?	3.64%	2
$(10!)/((5!)(5!))$	1.82%	1
$(5!)/((5!)((10-5)!))$	1.82%	1

10! * 5!	1.82%	1
10!*5!	1.82%	1
10!/(10-5)!	1.82%	1
10!/(5!)(5!)	1.82%	1
10!/(5!*5!)	1.82%	1
10!/5!	1.82%	1
10!/5!x(10-5)!	1.82%	1
10CHOOSE5	1.82%	1
26	1.82%	1
5! * 10!	1.82%	1
50	1.82%	1
50*10!	1.82%	1
5040	1.82%	1
5CHOOSE10	1.82%	1
9765625	1.82%	1
C(10,5)	1.82%	1
FIVE CHOOSE FIVE, TWICE	1.82%	1
P(10,5)	1.82%	1
Totals	100%	55

Keyword(s): 5^10;exp(5,10)

**Keyword
Matches:** 15

FIVE CHOOSE FIVE, TWICE $10!/5! \times (10-5)!$

10^5

$10! * 5! = 26$
50 ?

$10!/5!$

$10! * 5!$

$10! / (10-5)!$

9765625

10CHOOSE5
 $(10!) / ((5!)(5!))$
5040

$10! / (5!)(5!)$
 $50 * 10!$

$P(10,5)$

$C(10,5)$

$5! * 10!$

5^10

10 CHOOSE 5

$(5!) / ((5!)(10-5)!)$ 5CHOOSE10

3. Please do Question 3 which is displayed on the screen in class. (Short Answer)

	Responses	
	Percent	Count
12 CHOOSE 5 (c)	53.57%	30
$12! * 5$	3.57%	2
12^5	3.57%	2
5^12	3.57%	2
?	3.57%	2
N CHOOSE K	3.57%	2

$(12!)/((7!)(5!))$	1.79%	1
12 CHOOSE 5 ($12! / (5!(12-5)!)$)	1.79%	1
$12! / (5! (12 - 5)!)$	1.79%	1
$12!*5$	1.79%	1
$12!/(5!(12-5)!)$	1.79%	1
$12!/(5!(7!))$	1.79%	1
$12!/(5!*(12-5)!)$	1.79%	1
$12!/(5!*7!)$	1.79%	1
$12!/(5!7!) (c)$	1.79%	1
$12!/(7!)(5!)$	1.79%	1
12-CHOOSE-5	1.79%	1
12C5	1.79%	1
12CHOOSE5	1.79%	1
792	1.79%	1
C(12,5)	1.79%	1
PERMUTATIONS	1.79%	1
Totals	100%	56

Keyword(s): 12 choose 5;12 choose 7;12!/(5!7!)

Keyword Matches: 31

$12! / (5! (12 - 5)!)$
 12CHOOSE5 $12! / (5! 7!)$ 792 $12! * 5$
 12-CHOOSE-5 $12 \text{ CHOOSE } 5 (12! / (5!(12-5)!))$
 $12! * 5$ 12^5

12 CHOOSE 5

$12! / (7!(5!))$ 5^{12} ? N CHOOSE K
 $(12!) / ((7!)(5!))$ $C(12,5)$ $12C5$ $12! / (5!(12-5)!)$
 $12! / (5! * 7!)$ $12! / (5!(7!))$
 PERMUTATIONS
 $12! / (5!(12-5)!)$

4. Please do Question 4 which is displayed on the screen in class. (Short Answer)

Responses		
	Percent	Count
$2^6 (c)$	41.82%	23
6!	32.73%	18
36	7.27%	4
?	3.64%	2
1	1.82%	1
11	1.82%	1

21	1.82%	1
63	1.82%	1
6^2	1.82%	1
6CHOOSE1 + 6CHOOSE2 + 6CHOOSE3 + 6CHOOSE4 + 6CHOOSE4 + 6CHOOSE5 + 1	1.82%	1
N CHOOSE K	1.82%	1
POWER SET	1.82%	1
Totals	100%	55

Keyword(s): 2^6;(1<<6);exp(2,6)
Keyword Matches: 23

6CHOOSE1 + 6CHOOSE2 + 6CHOOSE3 + 6CHOOSE4 + 6CHOOSE4 + 6CHOOSE5 + 1

21 36 11 1? 63 6^2
POWER SET

2^6

6! N CHOOSE K

5. Please do Question 5 which is displayed on the screen in class. (Short Answer)

Responses		
	Percent	Count
15! (c)	56.36%	31
15 CHOOSE 15	7.27%	4
15^15	7.27%	4
15^2	3.64%	2
2^15	3.64%	2
1	1.82%	1
12	1.82%	1
1307674368000	1.82%	1
15 * 15	1.82%	1
15! * 15!	1.82%	1
15!/NOT A CLUE	1.82%	1
15*15	1.82%	1
15-CHOOSE-15	1.82%	1
15^2 - 15	1.82%	1
15P15	1.82%	1
?	1.82%	1
BALLS IN BOXES	1.82%	1
Totals	100%	55

Keyword(s): 15!

Keyword Matches: 31

15 CHOOSE 15 ^{15!/NOT A CLUE} 15^2

15-CHOOSE-15 2^{15}

15P15

$15 * 15$
 $15^2 - 15$
 $15 * 15$
 ?

$15! * 15!$
 1307674368000

15^{12}
 BALLS IN BOXES

15!

6. Please do Question 6 which is displayed on the screen in class. (Short Answer)

Responses		
	Percent	Count
23!	7.55%	4
$23!/(5!18!)$ (c)	5.66%	3
23 CHOOSE 5	3.77%	2
23^2	3.77%	2
$5! * 18! * 23$	3.77%	2
$5 * 18$	3.77%	2

?	3.77%	2
$(5! \cdot 18!) \cdot 23$	1.89%	1
$(5! + 18!) \cdot 23!$	1.89%	1
-1ULL	1.89%	1
1 WAY	1.89%	1
12	1.89%	1
18 CHOOSE $(5! + 18!)$	1.89%	1
18 CHOOSE 5	1.89%	1
$18! - 5!$	1.89%	1
2	1.89%	1
23 CHOOSE 18 + 23 CHOOSE 5	1.89%	1
23 CHOOSE 18, PLUS 5 CHOOSE 5	1.89%	1
23 CHOOSE 5 * 23 CHOOSE 18	1.89%	1
$23! / (5! (23 - 5)!)$	1.89%	1
$23! / (5! \cdot 18!)$	1.89%	1
$23! / (18! \cdot 5!)$	1.89%	1
$23! / (18! \cdot 5!) (c)$	1.89%	1
$23! / (18 - 5)!$	1.89%	1
$23! / (23 - 5)!$	1.89%	1
$23! / (5! (18!))$	1.89%	1
$23! / (5! \cdot 18!)$	1.89%	1
$23! / (5! \cdot 18!) + 23! / (18! \cdot 5!)$	1.89%	1
$23! / 18! / 5!$	1.89%	1
$23! / 5! \cdot 18!$	1.89%	1
$23! / 5! + 18!$	1.89%	1
23-CHOOSE-5 + 23- CHOOSE-18	1.89%	1
$23/8!5!$	1.89%	1
23^5	1.89%	1
33649	1.89%	1

5!	1.89%	1
5! * 18!	1.89%	1
5!*18!	1.89%	1
5!18!/23!	1.89%	1
A FEW	1.89%	1
BALLS IN BOXES	1.89%	1
C(23,18)	1.89%	1
IDK	1.89%	1
Totals	100%	53

Keyword(s): 23 choose;23 choose
 18;23!/(5!18!);23!/(18!5!)
 Keyword Matches: 4

18 CHOOSE 5

23 CHOOSE 5

$23/8!5!$ $5! * 18! * 23$
 $18! - 5!$ 12 $23!$? 23^2
 $5*18$ 33649
 $5!$

$23!/(5!18!)$

$23! / (5!*18!)$

$23!/(18-5)!$