

Session Name: 09 - Enumeration 2-22-2022 12-54 PM

Date Created: 2/22/22, 12:08:36 PM Active Participants: 109 of 119

Average Score: 52.14% 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)	89.81%	97
12	1.85%	2
!12	0.93%	1
10	0.93%	1
11!	0.93%	1
12!/12!6!	0.93%	1
12^12	0.93%	1
12^2	0.93%	1
2^12	0.93%	1
B	0.93%	1
F(X) = 12!	0.93%	1
Totals	100%	108

Keyword(s): 12!

Keyword Matches: 97

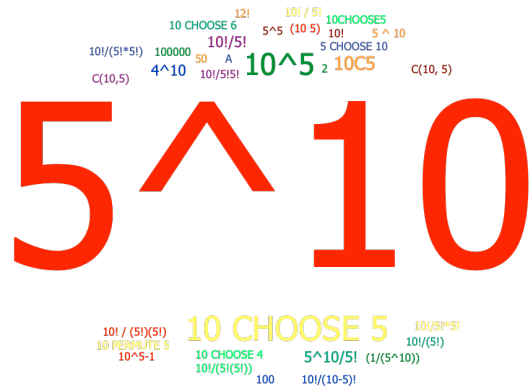
$$12!$$

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

Responses		
	Percent	Count
$5^{10} (c)$	54.63%	59
10 CHOOSE 5	6.48%	7
10^5	5.56%	6
10C5	2.78%	3
$10!/5!$	1.85%	2
4^{10}	1.85%	2

5^10/5!	1.85%	2
(1/(5^10))	0.93%	1
(10 5)	0.93%	1
10 CHOOSE 4	0.93%	1
10 CHOOSE 6	0.93%	1
10 PERMUTE 5	0.93%	1
10!	0.93%	1
10! / (5!)(5!)	0.93%	1
10! / 5!	0.93%	1
10!/(10-5)!	0.93%	1
10!/(5!(5!))	0.93%	1
10!/(5!)	0.93%	1
10!/(5!*5!)	0.93%	1
10!/5!*5!	0.93%	1
10!/5!5!	0.93%	1
100	0.93%	1
100000	0.93%	1
10^5-1	0.93%	1
10CHOOSE5	0.93%	1
12!	0.93%	1
2	0.93%	1
5 ^ 10	0.93%	1
5 CHOOSE 10	0.93%	1
50	0.93%	1
5^5	0.93%	1
A	0.93%	1
C(10, 5)	0.93%	1
C(10,5)	0.93%	1
Totals	100%	108

Keyword(s): 5^10;exp(5,10)
Keyword Matches: 59



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

Responses		
	Percent	Count
12 CHOOSE 5 (c)	44.86%	48
12!/5!7!	4.67%	5
12^5	4.67%	5
C(12, 5)	4.67%	5
12C5	2.8%	3
12P5	2.8%	3

C(12,5)	2.8%	3
12 C 5	1.87%	2
12!/((12-5)!5!)	1.87%	2
12!/(7!5!)	1.87%	2
12CHOOSE5	1.87%	2
5^12	1.87%	2
60	1.87%	2
(12 5)	0.93%	1
(12!)/((5!)(12-5)!)	0.93%	1
(12!)/(5! 7!)	0.93%	1
(12,5)	0.93%	1
10!/(5!(5!))	0.93%	1
10C5	0.93%	1
12!	0.93%	1
12! / (7!)(5!)	0.93%	1
12! / 5! 7!	0.93%	1
12!/((12!)(12-5)!)	0.93%	1
12!/(5!(7!))	0.93%	1
12!/(5!)(7!)	0.93%	1
12!/(5!*7!)	0.93%	1
12!/5!*7!	0.93%	1
12!/7!	0.93%	1
12*11*10*9*8	0.93%	1
12-CHOOSE-5	0.93%	1
12^5-1	0.93%	1
42	0.93%	1
5 CHOOSE 12	0.93%	1
95040	0.93%	1
A	0.93%	1
N CHOOSE K	0.93%	1
Totals	100%	107

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

Keyword Matches: 48

12 CHOOSE 5

$12! / ((12!)(12-5)!)$
 $12\text{-CHOOSE-}5$ ${}_{10}C_5$ ${}_{12}C_5$
 $12 \cdot 11 \cdot 10 \cdot 9 \cdot 8$ ${}_{12}C_5$ $(12!)/(5!7!)$ $5\text{ CHOOSE }12$
 12^{5-1} ${}_{12}P_5$ $C(12, 5)$ $12!/7!$ 12^5 $12!/(7!5!)$
 5^6 $12! / ((12-5)!5!)$ ${}_{12}C_5$ $(12,5)$ $12! / 5!7!$
 95040 ${}_{12}C_5$ $12!/5!7!$ $10!/(5!5!)$
 $N\text{ CHOOSE }K$ $12!/(5!7!)$ $(12\ 5)$ $12!/(5!7!)$
 $(12!)/((5!)(12-5)!)$ $12!$ $12!/(5!7!)$

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

Responses		
	Percent	Count
$2^6 (c)$	60.38%	64
6!	16.04%	17
64	8.49%	9
32	1.89%	2
6	1.89%	2
16	0.94%	1
1	0.94%	1

120	0.94%	1
2^5	0.94%	1
2^6 - 1	0.94%	1
6^12	0.94%	1
6^5	0.94%	1
6^6	0.94%	1
720	0.94%	1
D	0.94%	1
IMPORT ITERTOOLS A_SET = {34,52,22,66,43,1} DATA = ITERTOOLS. COMBINATIONS(A_SET, 2) SUBSETS = SET(DATA) PRINT(SUBSETS)	0.94%	1
N CHOOSE K	0.94%	1
Totals	100%	10

Keyword(s):

2^6;(1<<6);exp(2,6)

Keyword
Matches:

64

```
IMPORT ITERTOOLS A_SET = {34,52,22,66,43,1} DATA = ITERTOOLS.COMBINATIONS(A_SET, 2) SUBSETS = SET(DATA) PRINT(SUBSETS)
```

64 6^1 $2^6 - 1 = 32$ N CHOOSE K 120

2^6

6^6 $6!$ D 720 2^5 6^5
16 6^{12}

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

Responses		
	Percent	Count
15! (c)	67%	67
15	7%	7
15^15	6%	6
1	5%	5
15^2	2%	2
!15	1%	1

0	1%	1
15 C 15	1%	1
15 CHOOSE 1	1%	1
15 CHOOSE 15	1%	1
15!15!	1%	1
15*15	1%	1
225	1%	1
29 CHOOSE 15	1%	1
C	1%	1
C(15, 15)	1%	1
P(15, 15)	1%	1
P(15,15)	1%	1
Totals	100%	100

Keyword(s): 15!

Keyword Matches: 67



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

Responses		
	Percent	Count
23!	8.51%	8
$23!/(5!18!) (c)$	5.32%	5
$23!/5!18!$	5.32%	5
23 CHOOSE 5	4.26%	4
1	3.19%	3
33649	3.19%	3

18 CHOOSE 5	2.13%	2
23	2.13%	2
23 CHOOSE 2	2.13%	2
23 CHOOSE 5 * 23 CHOOSE 18	2.13%	2
$23!/(5!*18!)$	2.13%	2
2^23	2.13%	2
$!18 + !5$	1.06%	1
$(18!/(5!(18-5)!)) \cdot 23$	1.06%	1
$(23!) / ((5!) * (18!))$	1.06%	1
$(23!)/((5!)(23-5)!)$	1.06%	1
$(23!)/(5! 18!)$	1.06%	1
$(5! * 18!) * 23!$	1.06%	1
$(5*18)*23$	1.06%	1
0	1.06%	1
13 CHOOSE 23	1.06%	1
$18!/5!$	1.06%	1
$18!5!$	1.06%	1
18,5	1.06%	1
$18^5!$	1.06%	1
20!	1.06%	1
23 CHOOSE 18 * 23 CHOOSE 5	1.06%	1
23 CHOOSE 18 + 23 CHOOSE 5	1.06%	1
23 CHOOSE 5 PLUS 23 CHOOSE 18	1.06%	1
23 PERMUTE 5 * 18 PERMUTE 18	1.06%	1
$23! / 5! 18!$	1.06%	1
$23!/(18!5!) (c)$	1.06%	1
$23!/(5! * 18!)$	1.06%	1
$23!/(5!(18!))$	1.06%	1
$23!/15!18!$	1.06%	1

23!/5!*18!	1.06%	1
23!/5!+18!	1.06%	1
23!/5!X18!	1.06%	1
23!5!	1.06%	1
23*2	1.06%	1
23-CHOOSE-5	1.06%	1
23/(5!*18!)	1.06%	1
23^2	1.06%	1
23CHOOSE5*18CHOOSE18	1.06%	1
475	1.06%	1
5	1.06%	1
5 CHOOSE 23 * 18 CHOOSE 23	1.06%	1
5 CHOOSE 23 + 18 CHOOSE 23	1.06%	1
5!	1.06%	1
5! + 13!	1.06%	1
5!*18!	1.06%	1
5!*8!	1.06%	1
5!+18!	1.06%	1
5!18!	1.06%	1
5!18!/23!	1.06%	1
5^18	1.06%	1
5X18	1.06%	1
6	1.06%	1
62	1.06%	1
ALOT	1.06%	1
C(23, 18)	1.06%	1
C(23,5) C(23,18)	1.06%	1
C(23,5)*C(23,18)	1.06%	1
ME MATH SLOW RAN OUT OF TIME	1.06%	1

P(23,18)+P(23,5)	1.06%	1	
WORDLE 248 2/6 	1.06%		Keyword(s): 23 choose;23 choose 18;23!/(5!18!);23!/(18!5!)
Totals	100%		Keyword Matches: 6

23 CHOOSE 5 * 23 CHOOSE 18

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

23 CHOOSE 2 18 CHOOSE 5

33649 **23!** 1 23

$$23!/5!18!$$

23 CHOOSE 5