

Name: Kelly
DISCRETE

Date: 3/19/18
TROICI/GOSSE

LESSON #5: ORDER

Do Now: In the first half of a basketball game, Justin scored 6 points on a combination of 3 point shots, 2 point shots and 1 point free throws. What are all the possible combinations of shots that could have scored ~~11~~ 6 points? Show all the combinations with a systematic list.

3 POINTS	2 POINTS	1 POINT	TOTAL
2	0	0	6
1	1	1	6
1	0	3	6
0	3	0	6
0	2	2	6
0	1	4	6
0	0	6	6

1. Three people are running the 50 yard dash – Nina, Da-Keena, and Andrea. In how many different orders can they cross the finish line?

1st place

N

N

D

D

A

A

2nd place

D

A

N

A

N

D

3rd place

A

D

A

N

D

N

6 orders

2. Jackie, Josiah, Mike and Alyssa all called in to a radio show to get free tickets to a concert. List all the possible orders in which their calls could have been received.

<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
J	Jo	m	A
J	Jo	A	m
J	m	Jo	A
J	m	A	Jo
J	A	m	Jo
J	A	Jo	m
Jo	J	m	A
Jo	J	A	m
Jo	m	J	A
Jo	m	A	J
Jo	A	m	J
Jo	A	J	m
m	J	Jo	A
m	J	A	Jo
m	Jo	J	A
m	Jo	A	J
m	A	J	Jo
m	A	Jo	J
A	m	Jo	J
A	m	Jo	J
A	J	Jo	m
A	J	Jo	m
A	Jo	m	J
A	Jo	A	J

6 ways/person
 x 4 people
24 ways

3. Shaun has a lot of homework to do tonight. He has Health, Science, Math and English homework. What are the different orders that he could do his homework in, if he starts Math first?

1 st	2 nd	3 rd	4 th
m	H	S	E
m	H	E	S
m	S	H	E
m	S	E	H
m	E	S	H
m	E	H	S

6 ways

4. Stephanie has a lot of homework to do tonight. She has Social Studies, Science, Math, Health and English homework. What are the different orders that she could do his homework in, if she starts Social Studies first?

1 st	2 nd	3 rd	4 th	5 th
S	S	M	H	E
S	S	M	E	H
S	S	H	M	E
S	S	H	E	M
S	S	E	H	M
S	S	E	M	H
S	M	S	H	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	S	E
S	M	H	E	S
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S
S	M	H	E	S
S	M	H	S	E
S	M	E	S	H
S	M	E	H	S</

Name: Key
DISCRETE

Date: 3/19/18
TROICI/GOSSE

LESSON #6: ORDER- EXIT TICKET

1. Matt, Eric, and Taylor all called in to a radio show to get free tickets to a concert. List all the possible orders in which their calls could have been received.

<u>1st</u>	<u>2nd</u>	<u>3rd</u>
m	E	T
m	T	E
E	m	T
E	T	m
T	m	E
T	E	m

6 ways

2. Stephanie has a lot of homework to do tonight. She has Science, Math, Health and English homework. What are the different orders that she could do his homework in, if she starts Science first?

<u>1st</u>	<u>2nd</u>	<u>3rd</u>	<u>4th</u>
S	m	H	E
S	m	E	H
S	H	m	E
S	H	E	m
S	E	H	m
S	E	m	H

6 ways