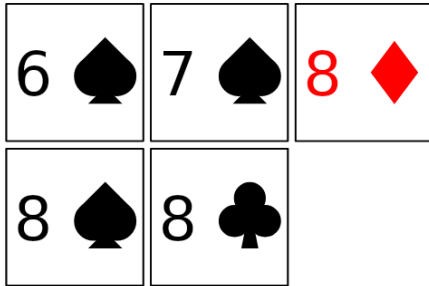


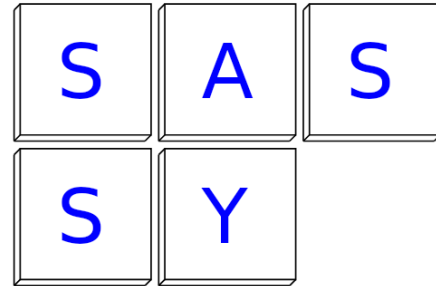
Probability and Statistics - Binomial Notation Practice

- 1 How many ways can these cards be arranged to still be arranged smallest to largest? Show as a factorial.



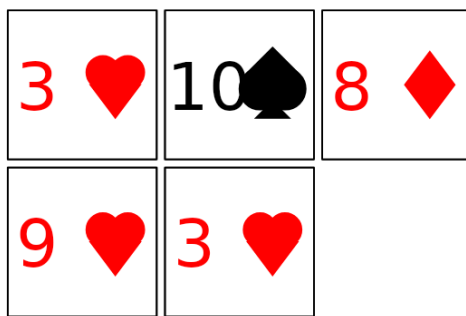
A	$3! \cdot 3!$	B	$\frac{1}{3! \cdot 1!}$
C	$\frac{2!}{3! \cdot 1!}$	D	$5!$
E	$3!$	F	$3! \cdot 2!$

- 2 How many ways can these letter tiles be ordered to spell 'SASSY'? Show as a factorial.



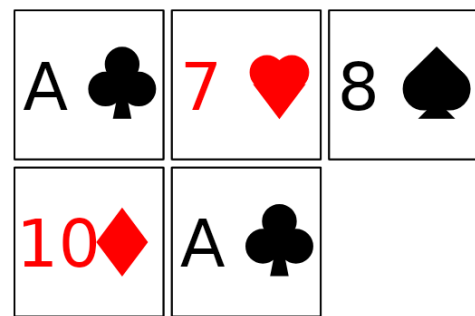
A	$3! \cdot 3!$	B	$\frac{1}{3! \cdot 1!}$
C	$4!$	D	$\frac{2!}{3! \cdot 1!}$
E	$5!$	F	$3!$

- 3 How many distinct ways can these cards be ordered? Show as a multiplication.

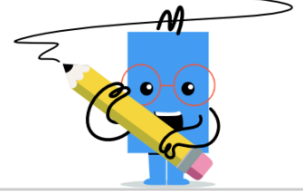


A	$\frac{3 \cdot 2}{2}$	B	$\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2}$
C	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2}$	D	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$
E	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{2}$	F	$\frac{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2}$

- 4 How many distinct ways can these cards be ordered? Show as a factorial.



A	$\frac{3!}{2!}$	B	$\frac{7!}{4! \cdot 2!}$
C	$\frac{5!}{3!}$	D	$\frac{5!}{2!}$
E	$\frac{6!}{2!}$	F	$\frac{5!}{5! \cdot 0!}$



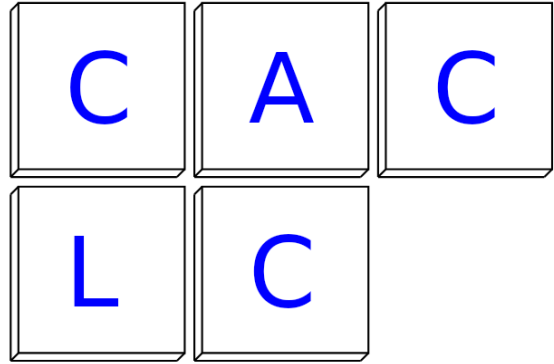
Probability and Statistics - Binomial Notation Practice

- 5 How many distinct ways can these cards be ordered?



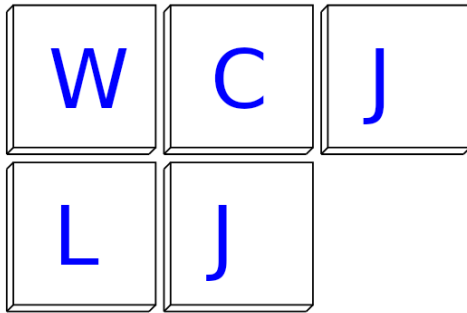
A	30	B	60	C	10
D	9	E	4	F	0

- 6 How many distinct ways can these letter tiles be ordered? Show as a multiplication.



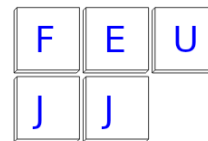
A	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2}$	B	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2}$
C	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2}$	D	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2}$
E	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$	F	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 3 \cdot 2}$

- 7 How many distinct ways can these letter tiles be ordered? Show as a factorial.



A	$\frac{5!}{3!}$	B	$\frac{5!}{2!}$
C	$\frac{5!}{5! \cdot 0!}$	D	$\frac{3!}{2!}$
E	$\frac{5!}{2! \cdot 3!}$	F	$\frac{5!}{4!}$

- 8 How many distinct ways can these letter tiles be ordered?



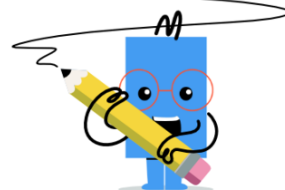
A	9	B	10	C	60
D	30	E	3	F	15

- 9 Select the correct equivalent to this factorial
 $3!$

A	60	B	$\frac{1}{2}$
C	6	D	1

- 10 Select the correct factorial equivalent to this multiplication
 $\frac{1}{3 \cdot 2}$

A	$\frac{1}{4!}$	B	$\frac{1}{5!}$
C	$\frac{1}{3!}$	D	$\frac{1}{1!}$



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11 Select the correct equivalent to this factorial

$$\frac{1}{2!}$$

A

$$4 \cdot 3 \cdot 2$$

B

$$\frac{1}{4}$$

C

$$3 \cdot 2$$

D

$$1$$

E

$$\frac{1}{2}$$

12 Select the correct equivalent to this factorial

$$\frac{6!}{6!}$$

A

$$\frac{1}{6}$$

B

$$4$$

C

$$1$$

D

$$\frac{1}{4}$$

13 Select the correct equivalent to this factorial

$$\frac{5!}{3!}$$

A

$$120$$

B

$$360$$

C

$$5040$$

D

$$20$$

E

$$\frac{1}{5}$$

14 Select the correct factorial equivalent to this multiplication

$$\frac{1}{4}$$

A

$$\frac{4!}{4!}$$

B

$$\frac{3!}{4!}$$

C

$$\frac{1!}{6!}$$

D

$$\frac{4!}{6!}$$

E

$$\frac{2!}{4!}$$

15 Select the correct formula for this notation
 ${}_3\text{P}_2$

A

$$\frac{3!}{1!}$$

B

$$\frac{3!}{2! \cdot 1!}$$

16 Select the correct value for when this notation is calculated
 ${}_3\text{P}_2$

A

$$\frac{6}{2}$$

B

$$\frac{6}{1}$$

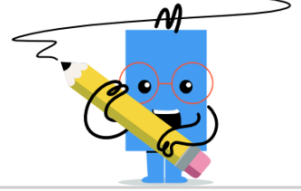
17 Select the correct description for this notation
 ${}_4\text{P}_2$

$${}_4\text{P}_2$$

A From a group of 4 options how many ways are there to choose 2 options in a specific order?

B From a group of 4 items select a set of 2 items regardless of order.

C With a group of 2 items, if you choose 4 in a specific order, how many permutations are possible?



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18 Select the correct notation for this formula

$$\frac{6!}{2!}$$

$$\frac{6!}{2!}$$

A ${}_6P_4$

B ${}_6C_4$

C ${}_4P_6$

19 Select the correct description for this formula

$$\frac{4!}{2!}$$

$$\frac{4!}{2!}$$

A From a group of 4 items select a set of 2 items regardless of order.

B Choose 4 options in a specific order from a group of 2 options

C Choose 2 options in a specific order from a group of 4 options

20 Select the correct value for when this formula is calculated

$$\frac{4!}{1!}$$

$$\frac{4!}{1!}$$

A $\frac{6}{1}$

B $\frac{24}{6}$

C $\frac{24}{1}$

21 Select the correct formula for this description

With a group of 5 items, if you choose 4 in a specific order, how many permutations are possible?

A $\frac{5!}{1!}$

B $\frac{5!}{4! \cdot 1!}$

22 Select the correct notation for this description

Choose 3 options in a specific order from a group of 5 options

A ${}_3P_5$

B ${}_5P_3$

C ${}_5C_3$

23 Select the correct value for when the described situation is calculated

Choose 3 options in a specific order from a group of 4 options

A $\frac{24}{6}$

B $\frac{24}{1}$

24 Select the correct formula for this notation

$${}_5\text{C}_4$$

$${}_5C_4$$

A $\frac{5!}{1!}$

B $\frac{4!}{5! \cdot 1!}$

C $\frac{5!}{4! \cdot 1!}$

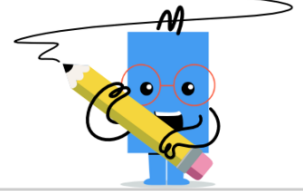
25 Select the correct value for when this notation is calculated

$${}_5\text{C}_2$$

$${}_5C_2$$

A $\frac{120}{6}$

B $\frac{120}{12}$



Probability and Statistics - Binomial Notation Practice

26 Select the correct description for this notation
 ${}_5\text{C}_3$

$${}_5\text{C}_3$$

- A From a group of 5 items select a set of 3 items regardless of order.
- B Choose a set of 2 items from a group of 3 total items. Ignore the order.
- C Choose 3 options in a specific order from a group of 5 options

27 Select the correct notation for this formula
 $\frac{5!}{2! \cdot 3!}$

A

B

$${}_5\text{P}_2$$

$${}_5\text{C}_2$$

28 Select the correct description for this formula
 $\frac{4!}{3! \cdot 1!}$

$$\frac{4!}{3! \cdot 1!}$$

- A From a group of 4 options how many ways are there to choose 3 options in a specific order?
- B Choose 3 options in a specific order from a group of 4 options
- C Choose a set of 3 items from a group of 4 total items. Ignore the order.

29 Select the correct value for when this formula is calculated
 $\frac{6!}{2! \cdot 4!}$

A

B

$$\frac{720}{24}$$

$$\frac{720}{48}$$

30 Select the correct formula for this description
Choose a set of 5 items from a group of 6 total items. Ignore the order.

A

$$\frac{6!}{1!}$$

B

$$\frac{6!}{5! \cdot 1!}$$

31 Select the correct notation for this description
From a group of 3 items select a set of 2 items regardless of order.

A

$${}_3\text{C}_2$$

B

$${}_3\text{P}_2$$

C

$${}_3\text{B}_2$$

32 Select the correct value for when the described situation is calculated

With a group of 4 options how many ways are there to choose a set of 2 options regardless of order?

A

$$\frac{24}{4}$$

B

$$\frac{24}{2}$$

33 From a group of 6 items select a set of 3 items regardless of order.

A

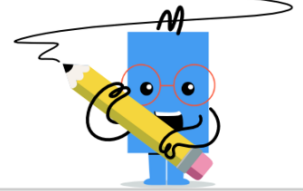
$$\binom{8}{3}$$

B

$$\binom{6}{3}$$

C

$$\binom{3}{6}$$



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34 $\frac{\frac{4!}{2!} \cdot 2!}{2! \cdot 2!}$

A $\binom{6}{2}$	B $\binom{3}{2}$
C $\binom{4}{2}$	

35 Select the bracket notation that means the same thing as this letter notation ${}_5\text{C}_3$

A $\binom{5}{2}$	B $\binom{7}{2}$
C $\binom{5}{3}$	

36 Select the letter notation that means the same thing as this bracket notation $\binom{4}{3}$

A ${}_3\text{C}_4$	B ${}_4\text{C}_3$
C ${}_4\text{P}_3$	

37 Select the correct formula for this notation $\binom{4}{2}$

A $\frac{4!}{2!}$	B $\frac{4!}{2! \cdot 2!}$
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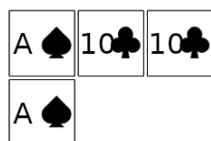
38 Select the correct description for this notation $\binom{5}{2}$

- A Choose a set of 2 items from a group of 5 total items. Ignore the order.
- B From a group of 6 options how many ways are there to choose 3 options in a specific order?
- C Choose 2 options in a specific order from a group of 5 options

39 Select the correct value for when this notation is calculated $\binom{6}{5}$

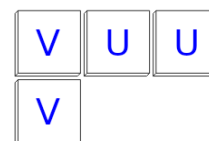
A $\frac{720}{1}$	B $\frac{720}{120}$
C $\frac{120}{12}$	

40 How many distinct ways can these cards be ordered?

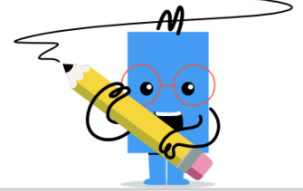


A 6	B 21	C 2
D 0	E 11	F 3

41 How many distinct ways can these letter tiles be ordered?

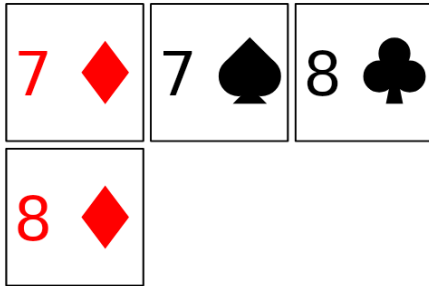


A 18	B 6	C 12
D 21	E 5	F 0



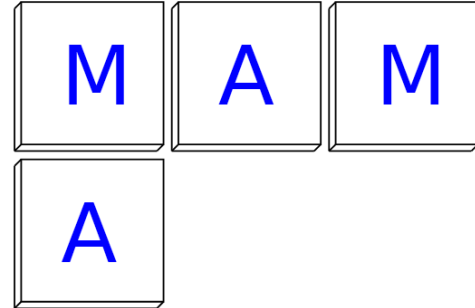
Probability and Statistics - Binomial Notation Practice

42 How many ways can these cards be arranged to still be arranged smallest to largest? Show as a factorial.



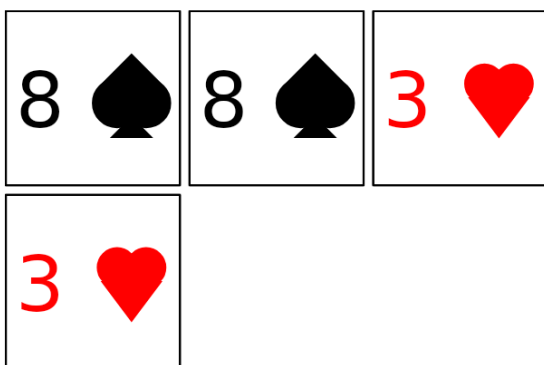
A	$\frac{1}{2! \cdot 2!}$	B	$2! \cdot 3!$
C	$2! \cdot 4!$	D	$\frac{2!}{2! \cdot 2!}$
E	$2! \cdot 2!$	F	$3! \cdot 2!$

43 How many ways can these letter tiles be ordered to spell 'MAMA'? Show as a factorial.



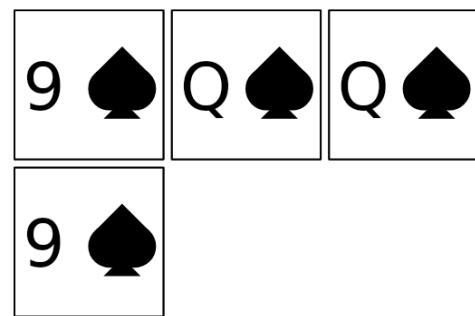
A	$2! \cdot 4!$	B	$4! \cdot 2!$
C	$2! \cdot 3!$	D	$\frac{2!}{2! \cdot 2!}$
E	$2! \cdot 2!$	F	$3! \cdot 2!$

44 How many distinct ways can these cards be ordered? Show as a multiplication.

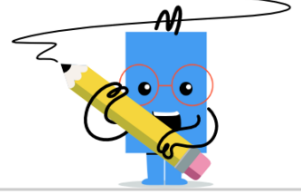


A	$\frac{4 \cdot 3 \cdot 2}{2 \cdot 2}$	B	$\frac{4 \cdot 3 \cdot 2}{2 \cdot 3 \cdot 2}$
C	$\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 2}$	D	$\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2}$
E	$\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$	F	$\frac{4 \cdot 3 \cdot 2}{2 \cdot 4 \cdot 3 \cdot 2}$

45 How many distinct ways can these cards be ordered? Show as a factorial.

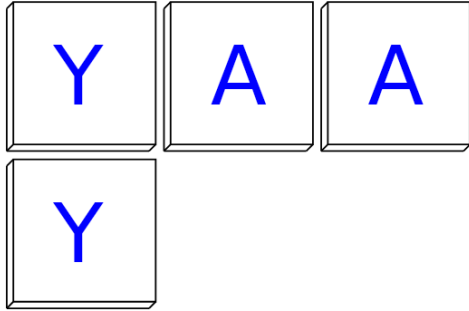


A	$\frac{4!}{2! \cdot 2!}$	B	$\frac{4!}{4! \cdot 2!}$
C	$\frac{4!}{4! \cdot 0!}$	D	$\frac{3!}{2! \cdot 2!}$
E	$\frac{4!}{2! \cdot 4!}$		



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46 How many distinct ways can these letter tiles be ordered? Show as a multiplication.



A $\frac{4 \cdot 3 \cdot 2}{2 \cdot 3 \cdot 2}$

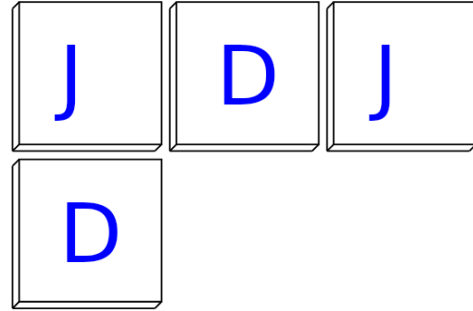
B $\frac{4 \cdot 3 \cdot 2}{2 \cdot 2}$

C $\frac{4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2}$

D $\frac{4 \cdot 3 \cdot 2}{4 \cdot 3 \cdot 2 \cdot 1}$

E $\frac{3 \cdot 2}{2 \cdot 2}$

47 How many distinct ways can these letter tiles be ordered? Show as a factorial.



A $\frac{4!}{2! \cdot 2!}$

B $\frac{4!}{4! \cdot 2!}$

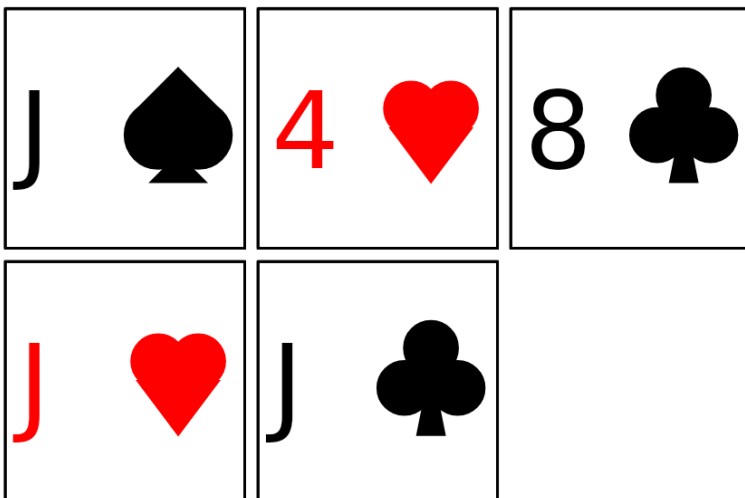
C $\frac{4!}{4! \cdot 0!}$

D $\frac{5!}{3! \cdot 2! \cdot 2!}$

E $\frac{3!}{2! \cdot 2!}$

F $\frac{4!}{2! \cdot 4!}$

48 How many total ways can 2 cards be drawn from this set? Show as a factorial.

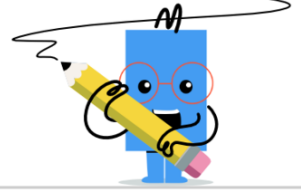


A $\frac{3!}{3! \cdot 0!}$

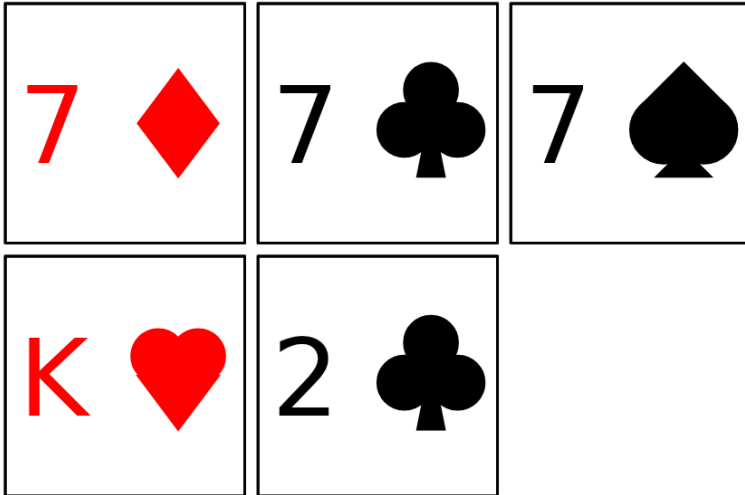
B $\frac{5!}{3!}$

C $\frac{2!}{5! \cdot 3!}$

D $\frac{5!}{2! \cdot 3!}$

**Probability and Statistics - Binomial Notation Practice**

49 How many ways can two 7s be drawn from this set? Show as a factorial.



A

$$\frac{2!}{3! \cdot 1!}$$

B

$$\frac{3!}{2! \cdot 1!}$$

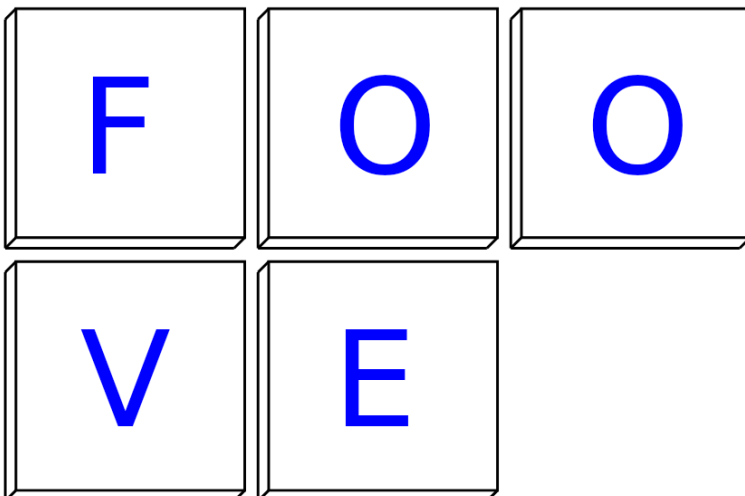
C

$$\frac{4!}{2! \cdot 2!}$$

D

$$3!$$

50 How many total ways can 2 letter tiles be drawn from this set? Show as a factorial.



A

$$\frac{7!}{4! \cdot 3!}$$

B

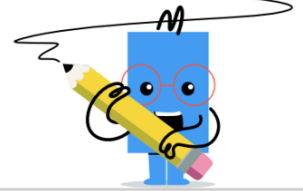
$$\frac{2!}{5! \cdot 3!}$$

C

$$\frac{5!}{3!}$$

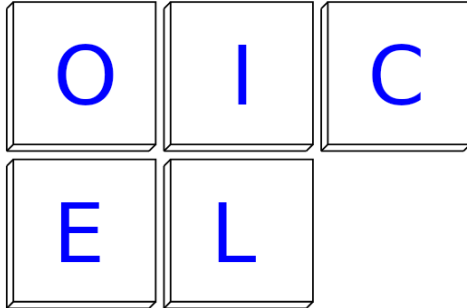
D

$$\frac{5!}{2! \cdot 3!}$$



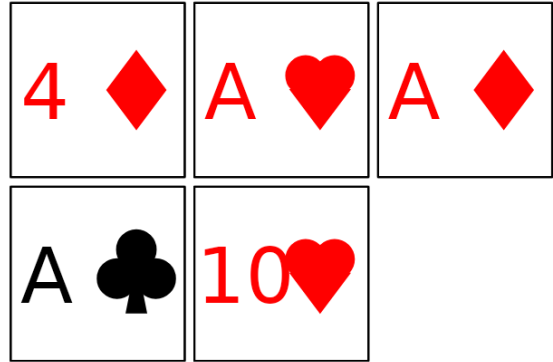
Probability and Statistics - Binomial Notation Practice

- 51** How many ways can 2 vowels be drawn from this set? Show as a factorial.



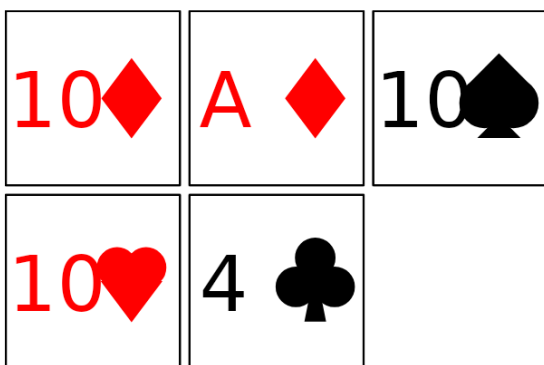
A	$3!$	B	$\frac{4!}{3! \cdot 1!}$
C	$\frac{2!}{3! \cdot 1!}$	D	$\frac{5!}{3! \cdot 2!}$
E	$\frac{3!}{2! \cdot 1!}$		

- 52** How many total ways can 2 cards be drawn from this set? Show in nCm notation.



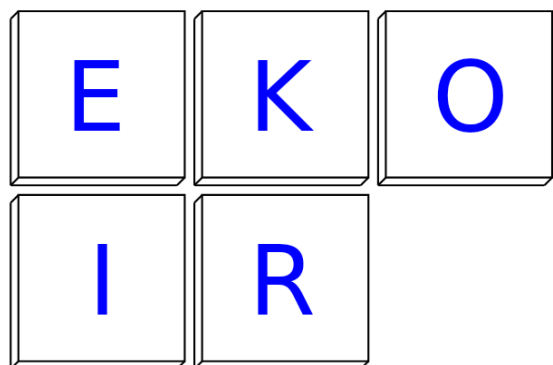
A	${}_3C_2$	B	${}_5R_2$
C	${}_5B_2$	D	${}_5P_2$
E	${}_2C_5$	F	${}_5C_2$

- 53** How many ways can two 10s be drawn from this set? Show in nCm notation.

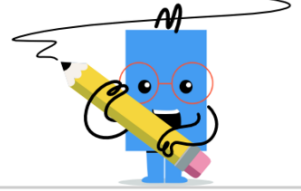


A	${}_3C_2$	B	${}_4C_2$
C	${}_3C_3$	D	${}_5C_4$
E	${}_3P_2$	F	${}_5C_2$

- 54** How many total ways can 2 letter tiles be drawn from this set? Show in nCm notation.

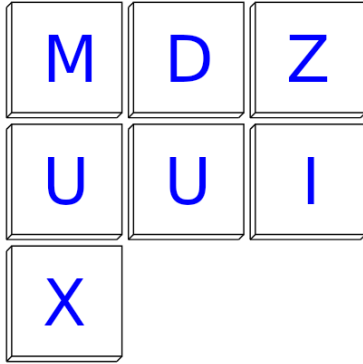


A	${}_4C_4$	B	${}_5P_2$
C	${}_2C_5$	D	${}_5C_2$
E	${}_5B_2$	F	${}_5R_2$



Probability and Statistics - Binomial Notation Practice

55 How many ways can 2 vowels be drawn from this set? Show in nCm notation.



A ${}_3B_2$

B ${}_3C_2$

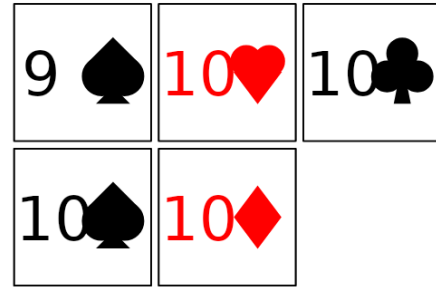
C ${}_3P_2$

D ${}_3C_3$

E ${}_4C_2$

F ${}_3R_2$

56 How many total ways can 3 cards be drawn from this set? Show as a binomial coefficient (bracket notation).



A $\binom{4}{4}$

B $\binom{5}{2}$

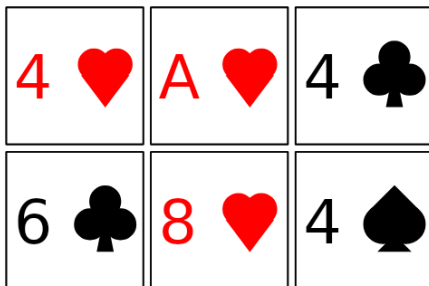
C $\binom{3}{5}$

D $\binom{5}{3}$

E $\binom{3}{2}$

F $\binom{6}{5}$

57 How many ways can two 4s be drawn from this set? Show as a binomial coefficient (bracket notation).



A $\binom{4}{4}$

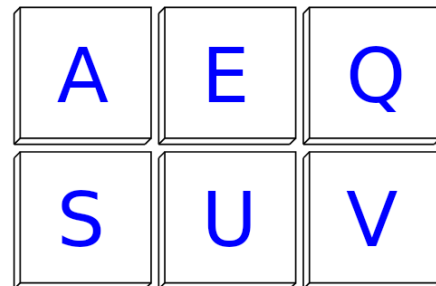
B $\binom{3}{3}$

C $\binom{3}{2}$

D $\binom{4}{2}$

E $\binom{2}{3}$

58 How many total ways can 2 letter tiles be drawn from this set? Show as a binomial coefficient (bracket notation).



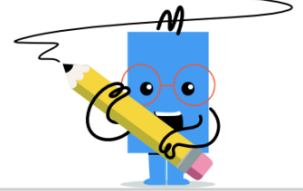
A $\binom{2}{6}$

B $\binom{5}{2}$

C $\binom{6}{2}$

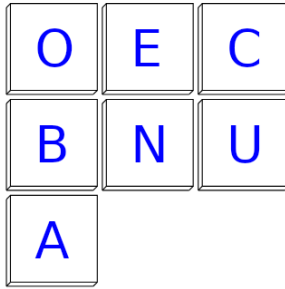
D $\binom{8}{2}$

E $\binom{4}{2}$



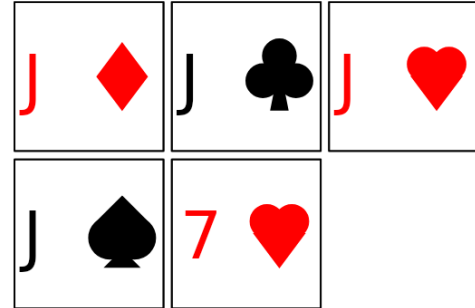
Probability and Statistics - Binomial Notation Practice

- 59** How many ways can 3 vowels be drawn from this set? Show as a binomial coefficient (bracket notation).



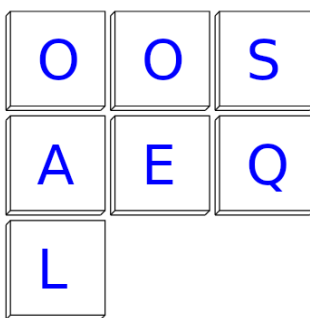
A	$\binom{6}{5}$	B	$\binom{3}{2}$
C	$\binom{3}{4}$	D	$\binom{5}{5}$
E	$\binom{4}{3}$	F	$\binom{6}{2}$

- 60** What's the chance of drawing two Jacks from this set? Show in nCm notation.



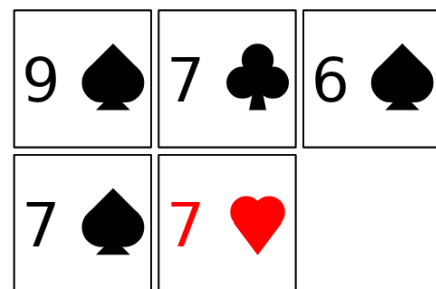
A	$\frac{{}_4P_2}{{}_2C_5}$	B	$\frac{{}_4P_2}{{}_5P_2}$
C	$\frac{{}_4C_2}{{}_5C_2}$	D	$\frac{{}_4C_4}{{}_5B_2}$
E	$\frac{{}_4P_2}{{}_5R_2}$	F	$\frac{{}_4B_2}{{}_5R_2}$

- 61** What's the chance of drawing 2 vowels from this set? Show in nCm notation.

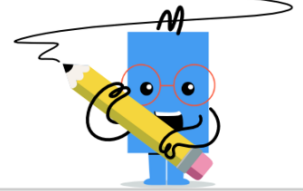


A	$\frac{{}_2C_4}{{}_7P_2}$	B	$\frac{{}_4P_2}{{}_7B_2}$
C	$\frac{{}_2C_4}{{}_7C_3}$	D	$\frac{{}_4C_2}{{}_7C_2}$
E	$\frac{{}_4B_2}{{}_7P_2}$	F	$\frac{{}_6C_2}{{}_2C_7}$

- 62** What's the chance of drawing two 7s from this set? Show as binomial coefficients (bracket notation).

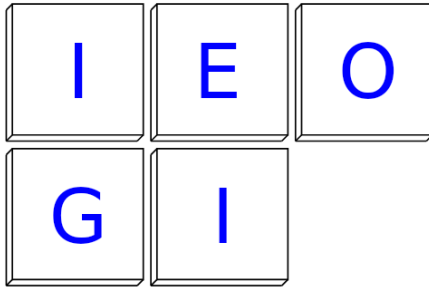


A	$\frac{\binom{5}{2}}{\binom{4}{3}}$	B	$\frac{\binom{2}{3}}{\binom{2}{5}}$
C	$\frac{\binom{3}{2}}{\binom{6}{3}}$	D	$\frac{\binom{3}{2}}{\binom{5}{2}}$



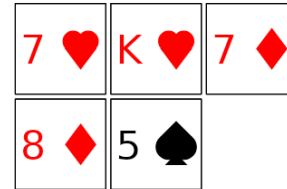
Probability and Statistics - Binomial Notation Practice

63 What's the chance of drawing 2 vowels from this set? Show as binomial coefficients (bracket notation).



- | | | | |
|---|-------------------------------------|---|-------------------------------------|
| A | $\frac{\binom{3}{3}}{\binom{6}{2}}$ | B | $\frac{\binom{3}{2}}{\binom{4}{2}}$ |
| C | $\frac{\binom{3}{2}}{\binom{2}{5}}$ | D | $\frac{\binom{4}{2}}{\binom{5}{2}}$ |

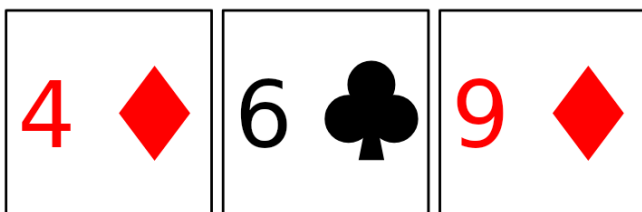
64 Calculate the probability of drawing 2 7s. Show as a fraction in binomial (bracket) notation



P(2 7s)

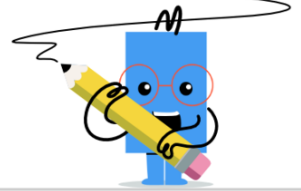
- | | | | |
|---|-------------------------------------|---|-------------------------------------|
| A | $\frac{\binom{2}{2}}{\binom{5}{2}}$ | B | $\frac{\binom{4}{2}}{\binom{7}{2}}$ |
| C | $\frac{\binom{4}{2}}{\binom{8}{2}}$ | D | $\frac{\binom{5}{2}}{\binom{2}{2}}$ |

65 Calculate the probability of drawing 2 Diamonds. Show as a description of the equation needed

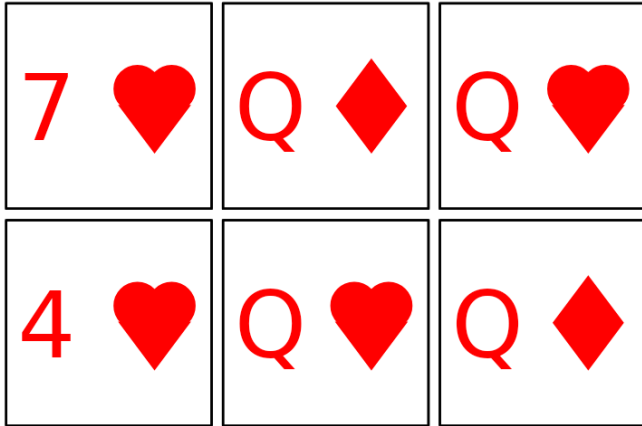


- | | |
|---|--|
| A | $\frac{\text{ways to draw 2 Diamonds from 2 options}}{\text{ways to draw 2 cards from 3}}$ |
| B | $\frac{\text{ways to draw 2 cards from 3}}{\text{ways to draw 2 Diamonds from 2 options}}$ |
| C | $\frac{\text{ways to draw 2 Diamonds from 2 options}}{\text{ways to order 3 cards}}$ |

P(2 Diamonds)

**Probability and Statistics - Binomial Notation Practice**

66 Calculate the probability of drawing 4 Queens. Show as a description of the equation needed



A

$$\frac{\text{ways to draw 4 cards from 6}}{\text{ways to draw 4 Queens from 4 options}}$$

B

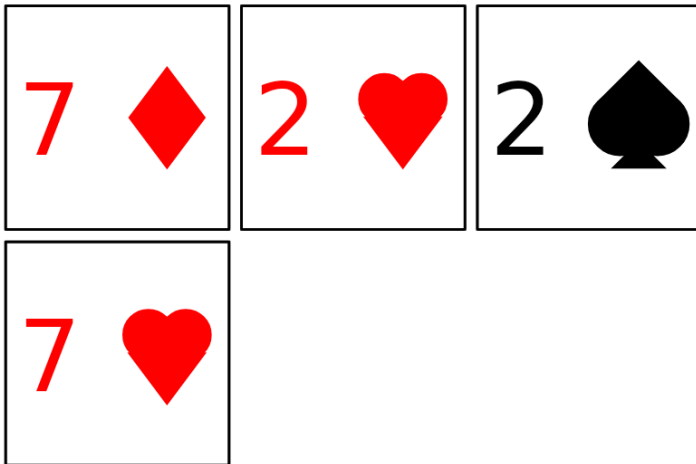
$$\frac{\text{ways to draw 4 Queens from 4 options}}{\text{ways to order 6 cards}}$$

C

$$\frac{\text{ways to draw 4 Queens from 4 options}}{\text{ways to draw 4 cards from 6}}$$

P(4 Qs)

67 Calculate the probability of drawing 2 2s. Show as a fraction in nCm form



A

$$\frac{{}_2C_2}{{}_4C_2}$$

B

$$\frac{{}_4C_2}{{}_6C_2}$$

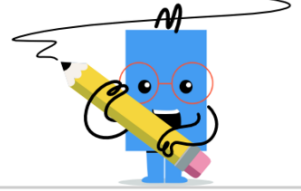
C

$$\frac{{}_2C_4}{{}_2C_2}$$

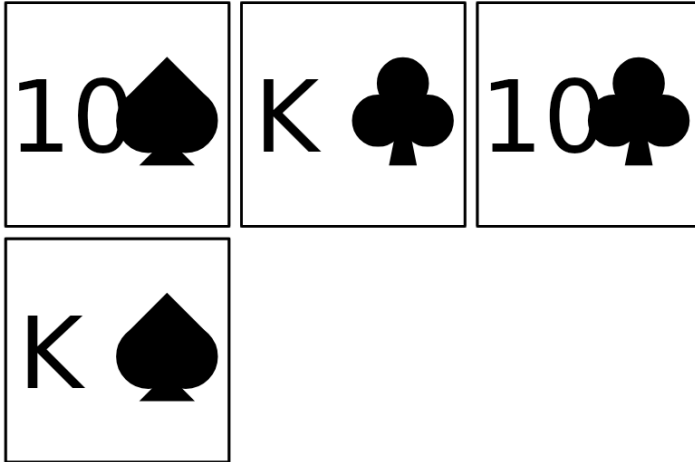
D

$$\frac{{}_4C_2}{{}_2C_2}$$

P(2 2s)

**Probability and Statistics - Binomial Notation Practice**

68 Calculate the probability of drawing 2 Kings. Show as a fraction in nCm form



P(2 Ks)

A

$$\frac{{}_2C_2}{{}_4C_2}$$

B

$$\frac{{}_3C_3}{{}_7C_3}$$

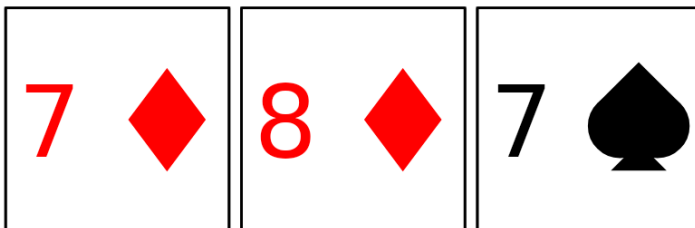
C

$$\frac{{}_2P_2}{{}_4P_2}$$

D

$$\frac{{}_4C_2}{{}_2C_2}$$

69 Calculate the probability of drawing 2 7s. Show as a fraction in binomial (bracket) notation



P(2 7s)

A

$$\frac{\binom{2}{2}}{\binom{3}{2}}$$

B

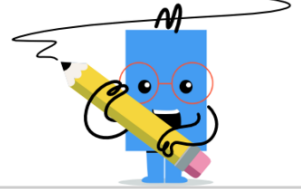
$$\frac{\binom{2}{2}}{\binom{2}{3}}$$

C

$$\frac{\binom{2}{3}}{\binom{2}{2}}$$

D

$$\frac{\binom{4}{4}}{\binom{4}{4}}$$



Probability and Statistics - Binomial Notation Practice

70 Calculate the probability of drawing 2 Queens. Show as a fraction



P(2 Qs)

A	$\frac{7}{22}$	B	$\frac{3}{35}$
C	$\frac{1}{22}$	D	$\frac{2}{6}$
E	$\frac{2}{17}$		

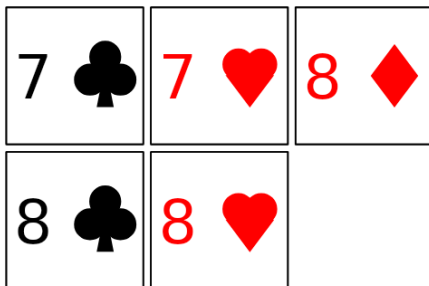
71 Calculate the probability of drawing 3 Spades. Show as a fraction



P(3 Spades)

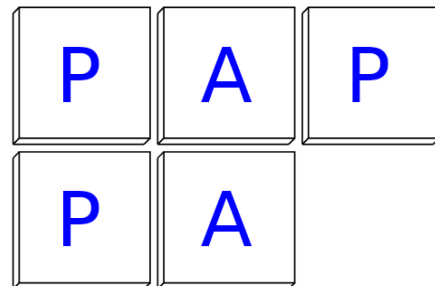
A	$\frac{20}{74}$	B	$\frac{14}{58}$
C	$\frac{6}{60}$	D	$\frac{18}{58}$
E	$\frac{8}{54}$		

72 How many ways can these cards be arranged to still be arranged smallest to largest? Show as a factorial.

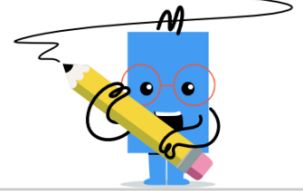


A	$\frac{1}{3! \cdot 2!}$	B	$3! \cdot 4!$
C	$5! \cdot 2!$	D	$\frac{2!}{3! \cdot 2!}$
E	$3! \cdot 2!$	F	$3! \cdot 3!$

73 How many ways can these letter tiles be ordered to spell 'PAPPA'? Show as a factorial.

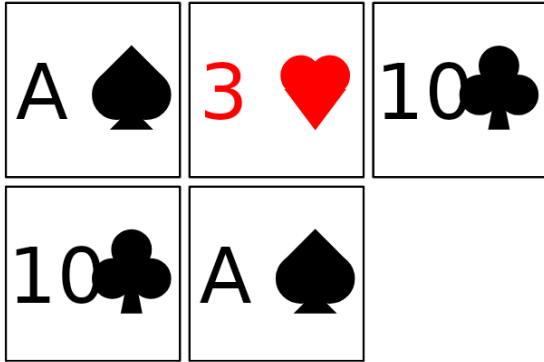


A	$\frac{2!}{2! \cdot 3!}$	B	$2! \cdot 3!$
C	$2! \cdot 4!$	D	$\frac{1}{2! \cdot 3!}$
E	$2! \cdot 5!$	F	$3! \cdot 3!$



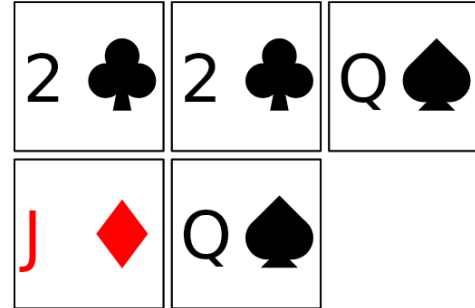
Probability and Statistics - Binomial Notation Practice

74 How many distinct ways can these cards be ordered? Show as a multiplication.



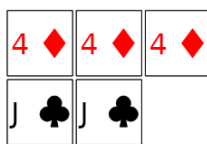
A	$\frac{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2 \cdot 2}$	B	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$
C	$\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2}$	D	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2}$
E	$\frac{7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2 \cdot 2}$	F	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 2}$

75 How many distinct ways can these cards be ordered? Show as a factorial.



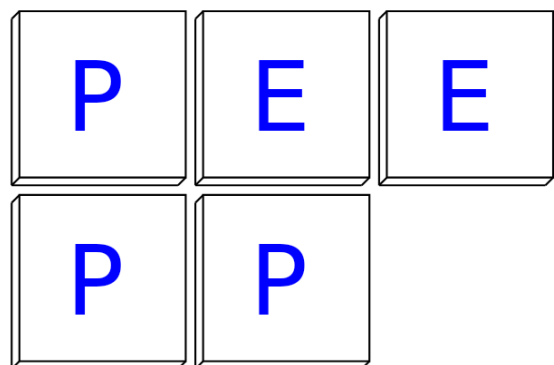
A	$\frac{5!}{4! \cdot 2!}$	B	$\frac{5!}{2! \cdot 4!}$
C	$\frac{3!}{2! \cdot 2!}$	D	$\frac{5!}{2! \cdot 2!}$
E	$\frac{5!}{5! \cdot 0!}$		

76 How many distinct ways can these cards be ordered?



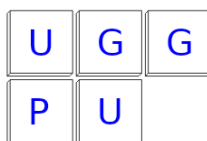
A	10	B	9	C	15
D	5	E	0	F	3

77 How many distinct ways can these letter tiles be ordered? Show as a multiplication.



A	$\frac{3 \cdot 2}{2 \cdot 3 \cdot 2}$	B	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 5 \cdot 4 \cdot 3 \cdot 2}$
C	$\frac{6 \cdot 5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 2 \cdot 3 \cdot 2}$	D	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{3 \cdot 2 \cdot 3 \cdot 2}$
E	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{2 \cdot 3 \cdot 2}$	F	$\frac{5 \cdot 4 \cdot 3 \cdot 2}{5 \cdot 4 \cdot 3 \cdot 2 \cdot 1}$

78 How many distinct ways can these letter tiles be ordered?



A	0	B	6	C	13
D	16	E	9	F	30