Counting and Probability · Partner Check 1

A

Name: Partner's name: Date:

Directions: Work alone on your own problems. Partner B has different problems with the same answers. After each problem, compare answers; if they differ, find the mistake together.
Answer conventions: sets in roster form with elements in increasing order, ∅ for the empty set; truth columns as T/F strings in standard row order (TT, TF, FT, FF; with r: TTT, TTF, ..., FFF); fractions in lowest terms; ordered pairs as (x, y).

1

How many integers are in the list 15, 16, ..., 50?

Answer: _____ Match? ☐ Yes ☐ No

2

3 shirts, 2 pants and 4 hats: how many outfits (one of each)?

Answer: _____ Match? ☐ Yes ☐ No

3

Two fair dice: find P(sum = 9).

Answer: _____ Match? ☐ Yes ☐ No

4

5 shirts, 2 pants and 2 hats: how many outfits (one of each)?

Answer: _____ Match? ☐ Yes ☐ No

5

How many 4-person committees can be chosen from 4 people?

Answer: _____ Match? ☐ Yes ☐ No

6

How many ways can 2 of 4 people fill 2 different offices?

Answer: _____ Match? ☐ Yes ☐ No

Counting and Probability · Partner Check 1

B

Name: _____ Partner's name: _____ Date: _____

Directions: Work alone on your own problems. Partner A has different problems with the same answers. After each problem, compare answers; if they differ, find the mistake together.
Answer conventions: sets in roster form with elements in increasing order, ∅ for the empty set; truth columns as T/F strings in standard row order (TT, TF, FT, FF; with r: TTT, TTF, ..., FFF); fractions in lowest terms; ordered pairs as (x, y).

1

How many integers are in the list 22, 23, ..., 57?

Answer: _____ Match? ☐ Yes ☐ No

2

6 shirts, 4 pants and 1 hats: how many outfits (one of each)?

Answer: _____ Match? ☐ Yes ☐ No

3

A bag has 2 red and 16 blue marbles. Find P(red).

Answer: _____ Match? ☐ Yes ☐ No

4

4 shirts, 5 pants and 1 hats: how many outfits (one of each)?

Answer: _____ Match? ☐ Yes ☐ No

5

How many bit strings of length 4 have exactly 4 ones?

Answer: _____ Match? ☐ Yes ☐ No

6

How many 2-letter strings with no repeated letter use letters from a 4-letter alphabet?

Answer: _____ Match? ☐ Yes ☐ No

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1

How many ways can 3 of 5 people fill 3 different offices?

Answer: _____ Match? ☐ Yes ☐ No

2

Two fair dice: find P(sum = 6).

Answer: _____ Match? ☐ Yes ☐ No

3

5 shirts, 2 pants and 1 hats: how many outfits (one of each)?

Answer: _____ Match? ☐ Yes ☐ No

4

How many integers are in the list 28, 29, ..., 71?

Answer: _____ Match? ☐ Yes ☐ No

5

5 shirts, 6 pants and 3 hats: how many outfits (one of each)?

Answer: _____ Match? ☐ Yes ☐ No

6

How many 3-person committees can be chosen from 4 people?

Answer: _____ Match? ☐ Yes ☐ No

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B

Name: _____ Partner's name: _____ Date: _____

Directions: Work alone on your own problems. Partner A has different problems with the same answers. After each problem, compare answers; if they differ, find the mistake together.
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1

How many 3-letter strings with no repeated letter use letters from a 5-letter alphabet?

Answer: _____ Match? ☐ Yes ☐ No

2

A bag has 5 red and 31 blue marbles. Find P(red).

Answer: _____ Match? ☐ Yes ☐ No

3

2 shirts, 5 pants and 1 hats: how many outfits (one of each)?

Answer: _____ Match? ☐ Yes ☐ No

4

How many integers are in the list 14, 15, ..., 57?

Answer: _____ Match? ☐ Yes ☐ No

5

6 shirts, 5 pants and 3 hats: how many outfits (one of each)?

Answer: _____ Match? ☐ Yes ☐ No

6

How many bit strings of length 4 have exactly 3 ones?

Answer: _____ Match? ☐ Yes ☐ No

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1

How many 2-person committees can be chosen from 7 people?

Answer: _____ Match? ☐ Yes ☐ No

2

5 shirts, 4 pants and 3 hats: how many outfits (one of each)?

Answer: _____ Match? ☐ Yes ☐ No

3

2 shirts, 4 pants and 3 hats: how many outfits (one of each)?

Answer: _____ Match? ☐ Yes ☐ No

4

How many ways can 3 of 7 people fill 3 different offices?

Answer: _____ Match? ☐ Yes ☐ No

5

How many integers are in the list 6, 7, ..., 83?

Answer: _____ Match? ☐ Yes ☐ No

6

Two fair dice: find P(sum = 3).

Answer: _____ Match? ☐ Yes ☐ No

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B

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Directions: Work alone on your own problems. Partner A has different problems with the same answers. After each problem, compare answers; if they differ, find the mistake together.
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1

How many bit strings of length 7 have exactly 2 ones?

Answer: _____ Match? ☐ Yes ☐ No

2

5 shirts, 6 pants and 2 hats: how many outfits (one of each)?

Answer: _____ Match? ☐ Yes ☐ No

3

3 shirts, 4 pants and 2 hats: how many outfits (one of each)?

Answer: _____ Match? ☐ Yes ☐ No

4

How many 3-letter strings with no repeated letter use letters from a 7-letter alphabet?

Answer: _____ Match? ☐ Yes ☐ No

5

How many integers are in the list 21, 22, ..., 98?

Answer: _____ Match? ☐ Yes ☐ No

6

A bag has 2 red and 34 blue marbles. Find P(red).

Answer: _____ Match? ☐ Yes ☐ No