



Verify valid probability distributions

1

What is the missing probability?

The probabilities must add to 1. Find the missing value.

X	$P(X)$
1	0.10
2	0.70
3	0.15
4	?

- A 0.05 B 0.00 C 0.95 D 0.10

2

Is this a valid probability table?

A valid table has probabilities from 0 to 1 that add to 1.

X	$P(X)$
2	0.50
3	0.10
4	0.10
5	0.30

- A Yes, it is a valid probability table B No, it is not a valid probability table

3

Is this a valid probability table?

A valid table has probabilities from 0 to 1 that add to 1.

X	$P(X)$
0	0.70
1	0.10
2	0.10
3	-0.10

- A Yes, it is a valid probability table B No, it is not a valid probability table

4

Is this a valid probability table?

A valid table has probabilities from 0 to 1 that add to 1.

X	$P(X)$
3	0.10
4	0.10
5	0.10
6	0.70

- A Yes, it is a valid probability table B No, it is not a valid probability table

5

Is this a valid probability table?

A valid table has probabilities from 0 to 1 that add to 1.

X	$P(X)$
3	1.10
4	0.40
5	0.40
6	0.10

- A Yes, it is a valid probability table B No, it is not a valid probability table

6

Is this a valid probability table?

A valid table has probabilities from 0 to 1 that add to 1.

X	$P(X)$
0	0.10
1	0.50
2	0.20
3	0.20

- A Yes, it is a valid probability table B No, it is not a valid probability table

7

Is this a valid probability table?

A valid table has probabilities from 0 to 1 that add to 1.

X	$P(X)$
3	0.10
4	0.50
5	-0.10
6	0.10

- A Yes, it is a valid probability table B No, it is not a valid probability table

8

Is this a valid probability table?

A valid table has probabilities from 0 to 1 that add to 1.

X	$P(X)$
1	0.10
2	0.40
3	0.40
4	0.10

- A No, it is not a valid probability table B Yes, it is a valid probability table



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9

Is this a valid probability table?

A valid table has probabilities from 0 to 1 that add to 1.

X	$P(X)$
1	0.20
2	0.50
3	0.20
4	0.30

A Yes, it is a valid probability table

B No, it is not a valid probability table

10

Is this a valid probability table?

A valid table has probabilities from 0 to 1 that add to 1.

X	$P(X)$
2	0.30
3	0.50
4	-0.10
5	0.10

A Yes, it is a valid probability table

B No, it is not a valid probability table

11

Is this a valid probability table?

A valid table has probabilities from 0 to 1 that add to 1.

X	$P(X)$
3	0.10
4	0.30
5	0.30
6	0.30

A No, it is not a valid probability table

B Yes, it is a valid probability table

12

Is this a valid probability table?

A valid table has probabilities from 0 to 1 that add to 1.

X	$P(X)$
3	1.10
4	0.20
5	0.20
6	0.40

A No, it is not a valid probability table

B Yes, it is a valid probability table