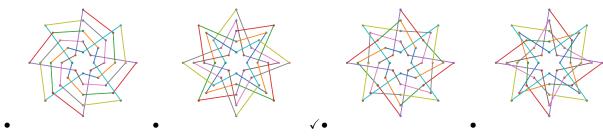
Ethnomathematics (Kolam)

1. Ethnomathematics: Kolam (Version 1)

Ethnomathematitcs: Kolam

Kolams are an ethnomathematical practice that is still common in southern India. A kolam is a chalk drawing that can be executed in a single line and is created according to a set of rules. Below several such kolams with 8 arms of 5 points each are shown in a simplified form.

<ol type=a>If you start counting the points at the innermost point of the upward pointing arm, which picture stands for the counterclockwise sequence of points <1,4,2,5,3>?



A kolam can be drawn in a single line if the following holds true for the number of arms and the num-

ber of points on an arm:

The two numbers are coprime. \checkmark

There are more arms than points per arm.

The difference between the number of arms and the number of points is odd.

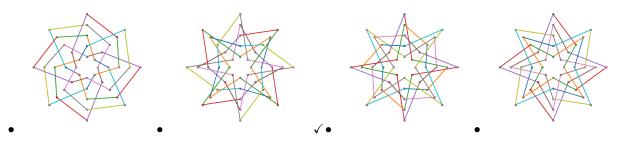
The number of arms is even, the number of points odd.

2. Ethnomathematics: Kolam (Version 2)

Ethnomathematitcs: Kolam

Kolams are an ethnomathematical practice that is still common in southern India. A kolam is a chalk drawing that can be executed in a single line and is created according to a set of rules. Below several such kolams with 8 arms of 5 points each are shown in a simplified form.

<ol type=a>If you start counting the points at the innermost point of the upward pointing arm, which picture stands for the counterclockwise sequence of points < 2, 4, 1, 5, 3 >?



 A kolam can be drawn in a single line if the following holds true for the number of arms and the num-

ber of points on an arm:

The two numbers are coprime. ✓

There are more arms than points per arm.

The difference between the number of arms and the number of points is odd.

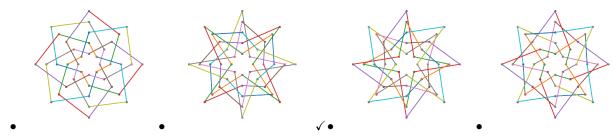
The number of arms is even, the number of points odd.

3. Ethnomathematics: Kolam (Version 3)

Ethnomathematitcs: Kolam

Kolams are an ethnomathematical practice that is still common in southern India. A kolam is a chalk drawing that can be executed in a single line and is created according to a set of rules. Below several such kolams with 8 arms of 5 points each are shown in a simplified form.

<ol type=a>If you start counting the points at the innermost point of the upward pointing arm, which picture stands for the counterclockwise sequence of points < 3, 4, 1, 5, 2 >?



 A kolam can be drawn in a single line if the following holds true for the number of arms and the num-

ber of points on an arm:

The two numbers are coprime. ✓

There are more arms than points per arm.

The difference between the number of arms and the number of points is odd.

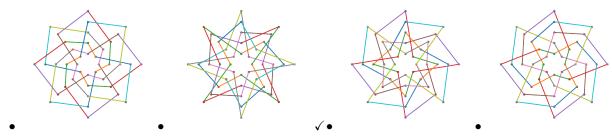
The number of arms is even, the number of points odd.

4. Ethnomathematics: Kolam (Version 4)

Ethnomathematitcs: Kolam

Kolams are an ethnomathematical practice that is still common in southern India. A kolam is a chalk drawing that can be executed in a single line and is created according to a set of rules. Below several such kolams with 8 arms of 5 points each are shown in a simplified form.

<ol type=a>If you start counting the points at the innermost point of the upward pointing arm, which picture stands for the counterclockwise sequence of points <4,3,1,5,2>?



 A kolam can be drawn in a single line if the following holds true for the number of arms and the number of arms are not also are not a

The two numbers are coprime. \checkmark

There are more arms than points per arm.

The difference between the number of arms and the number of points is odd.

The number of arms is even, the number of points odd.

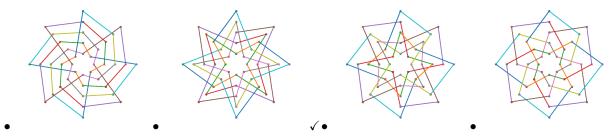
ber of points on an arm:

5. Ethnomathematics: Kolam (Version 5)

Ethnomathematitcs: Kolam

Kolams are an ethnomathematical practice that is still common in southern India. A kolam is a chalk drawing that can be executed in a single line and is created according to a set of rules. Below several such kolams with 8 arms of 5 points each are shown in a simplified form.

<ol type=a>If you start counting the points at the innermost point of the upward pointing arm, which picture stands for the counterclockwise sequence of points < 5, 3, 1, 4, 2>?



 A kolam can be drawn in a single line if the following holds true for the number of arms and the number of arms are not also are not a

ber of points on an arm: The two numbers are coprime. \checkmark

There are more arms than points per arm.

The difference between the number of arms and the number of points is odd.

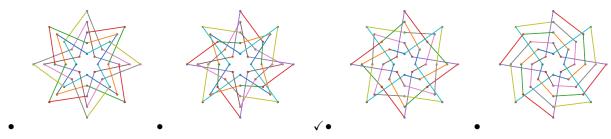
The number of arms is even, the number of points odd.

6. Ethnomathematics: Kolam (Version 6)

Ethnomathematitcs: Kolam

Kolams are an ethnomathematical practice that is still common in southern India. A kolam is a chalk drawing that can be executed in a single line and is created according to a set of rules. Below several such kolams with 8 arms of 5 points each are shown in a simplified form.

<ol type=a>If you start counting the points at the innermost point of the upward pointing arm, which picture stands for the counterclockwise sequence of points < 1, 4, 2, 3, 5 >?



 A kolam can be drawn in a single line if the following holds true for the number of arms and the num-

ber of points on an arm:

The two numbers are coprime. \checkmark

There are more arms than points per arm.

The difference between the number of arms and the number of points is odd.

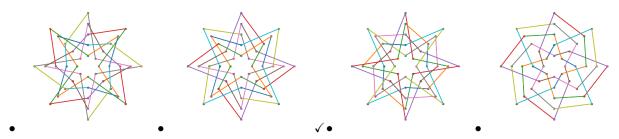
The number of arms is even, the number of points odd.

7. Ethnomathematics: Kolam (Version 7)

Ethnomathematitcs: Kolam

Kolams are an ethnomathematical practice that is still common in southern India. A kolam is a chalk drawing that can be executed in a single line and is created according to a set of rules. Below several such kolams with 8 arms of 5 points each are shown in a simplified form.

<ol type=a>If you start counting the points at the innermost point of the upward pointing arm, which picture stands for the counterclockwise sequence of points < 2, 4, 1, 3, 5 >?



 A kolam can be drawn in a single line if the following holds true for the number of arms and the number of arms are not also are not a

ber of points on an arm:

The two numbers are coprime. \checkmark

There are more arms than points per arm.

The difference between the number of arms and the number of points is odd.

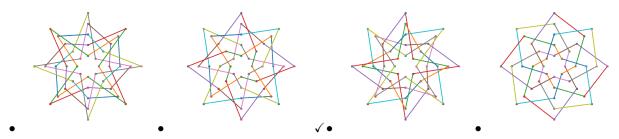
The number of arms is even, the number of points odd.

8. Ethnomathematics: Kolam (Version 8)

Ethnomathematitcs: Kolam

Kolams are an ethnomathematical practice that is still common in southern India. A kolam is a chalk drawing that can be executed in a single line and is created according to a set of rules. Below several such kolams with 8 arms of 5 points each are shown in a simplified form.

<ol type=a>If you start counting the points at the innermost point of the upward pointing arm, which picture stands for the counterclockwise sequence of points < 3, 4, 1, 2, 5>?



 A kolam can be drawn in a single line if the following holds true for the number of arms and the number of arms are not also are not a

ber of points on an arm: The two numbers are coprime. \checkmark

There are more arms than points per arm.

The difference between the number of arms and the number of points is odd.

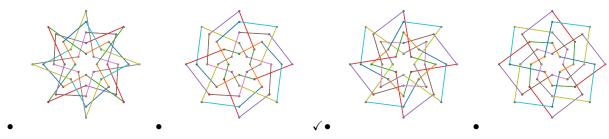
The number of arms is even, the number of points odd.

9. Ethnomathematics: Kolam (Version 9)

Ethnomathematitcs: Kolam

Kolams are an ethnomathematical practice that is still common in southern India. A kolam is a chalk drawing that can be executed in a single line and is created according to a set of rules. Below several such kolams with 8 arms of 5 points each are shown in a simplified form.

<ol type=a>If you start counting the points at the innermost point of the upward pointing arm, which picture stands for the counterclockwise sequence of points <4,3,1,2,5>?



A kolam can be drawn in a single line if the following holds true for the number of arms and the num-

ber of points on an arm:

The two numbers are coprime. ✓

There are more arms than points per arm.

The difference between the number of arms and the number of points is odd.

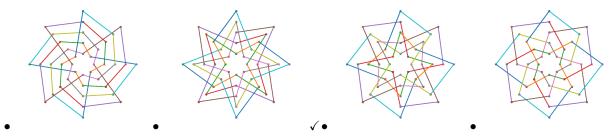
The number of arms is even, the number of points odd.

10. Ethnomathematics: Kolam (Version 10)

Ethnomathematitcs: Kolam

Kolams are an ethnomathematical practice that is still common in southern India. A kolam is a chalk drawing that can be executed in a single line and is created according to a set of rules. Below several such kolams with 8 arms of 5 points each are shown in a simplified form.

<ol type=a>If you start counting the points at the innermost point of the upward pointing arm, which picture stands for the counterclockwise sequence of points < 5, 3, 1, 4, 2>?



 A kolam can be drawn in a single line if the following holds true for the number of arms and the num-

ber of points on an arm:

The two numbers are coprime. ✓

There are more arms than points per arm.

The difference between the number of arms and the number of points is odd.

The number of arms is even, the number of points odd.