

# Cheerleader Competition



The cheerleaders are preparing for the county competition. They must perform on stage in a rectangular array that meets these rules:

- There must be at least 2 cheerleaders in each row or column.
- Each row must have the same number of cheerleaders.
- Each column must have the same number of cheerleaders.

There are 12 cheerleaders in the squad this year.

- How many different rectangular arrays can the cheerleaders form?
- Describe each of the ways you found using numbers, words and/or pictures.

# Answer Key



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## Answer:

The cheerleaders can form any of the following arrays:

4 rows of 3 cheerleaders = 12 cheerleaders

```
X  X  X
X  X  X
X  X  X
X  X  X
```

3 rows of 4 cheerleaders = 12

```
X  X  X  X
X  X  X  X
X  X  X  X
```

6 rows of 2 cheerleaders = 12

```
X  X
X  X
X  X
X  X
X  X
X  X
```

2 rows of 6 cheerleaders = 12

```
X  X  X  X  X  X
X  X  X  X  X  X
```

The 12 cheerleaders can use any of the 4 different formations pictured above to satisfy the competition rules.