



***FLARE***<sup>™</sup>

Sample Activity Spinner



# making a spinner to match data





In this activity the students make a spinner to match data in a tally chart.

The activity can be adjusted for

- bar graphs.

## What to Do Before



1. Select Setup ► Number of Sectors ► 8.
2. Select Setup ► Show Tally Chart. Use  and the Shades palette to insert the colors in the Shade column and  to insert the tally marks in the Tally column as shown below.

Shade	Tally	Total
		5
		3


3. Save the activity file for later use by selecting File ► Save.


## How to Do It Differently

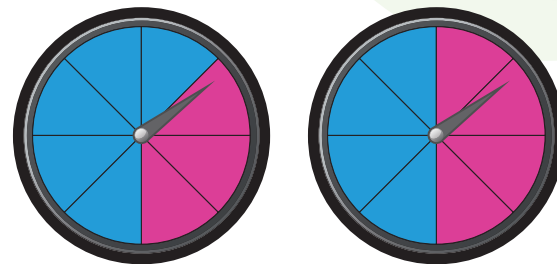
### Bar graphs


- Select Setup ► Show Bar Graph. Use  to show the colors blue and pink along the horizontal axis and  to show five blue outcomes and three pink outcomes on the graph.

## What to Do Now

1. Display the spinner and tally chart. Say: *This tally chart shows the outcomes of eight spins of one spinner. What do you think the spinner might look like?* Invite students to explain their thinking and use  and the Shades palette to shade the spinner (see two examples on the next page). Open the Shades

palette and use  to remove the colors from the sectors before the next student shades the spinner.



2. Point out that many different spinners can produce this data. Some examples are a blue and pink spinner with more than two sectors, a spinner that is one-half blue and one-half pink, and a spinner that has more blue sectors than pink sectors. Also point out that it is difficult to determine exactly what the spinner might look like because of the low number of spins, and that a spinner may give different results each time it is used. To demonstrate these ideas, select Setup ► Number of Spins ► 8 and Setup ► Link Spins and Data. Shade examples of possible spinners and use  to test each a few times.
3. Ask: *What do you think a spinner that cannot produce this data might look like?* (All blue, all pink, part blue but no pink, part pink but no blue, or no blue or pink.)

## What to Do After

Use a greater number of tally marks.

- Use 16, 32, or 64 tally marks and make the results for blue and pink slightly unequal. Point out that as the number of spins increases, the easier it is to determine what the spinner might look like.