

# Gauge Chart



Clipboard: Paste, Copy, Paste with styles, Paste as text only, Paste as plain text only, Paste as picture only, Paste as picture with text.

Font: Calibri, 11, Bold, Italic, Underline, Text color, Background color, Font color, Strikethrough.

Alignment: Left, Center, Right, Justify, Merge cells, Unmerge cells, Wrap text, Orientation, Text to columns.

Number: General, Currency, Percentage, Decimals, Thousands separator, Comma separator, Fraction, Scientific, Text, Custom.

Styles: Conditional Formatting, Format as Table, Cell Styles.

Cells: Insert, Delete, Format.

Editing: Sort & Filter, Find & Select.

Add-ins: Add-ins, Analyze Data.

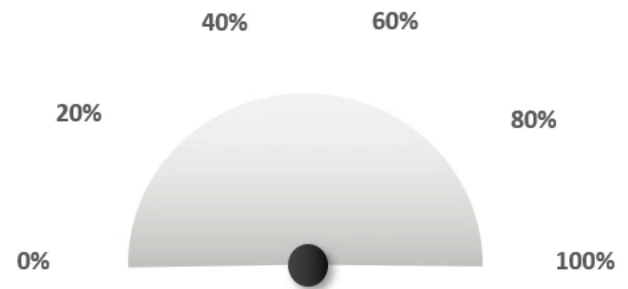
B2 fx 10

A B C D E F G H I J K L M N O P Q R S

1 Chart Value Max Slices Degrees X-Values Y-Values

2 5.00 10

[www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html)



Gauge Chart Blank

# Step 1: Insert Data In Cells C2:C7

The screenshot shows the Microsoft Excel interface with the following data in the spreadsheet:

Chart Value	max	min	Degrees	X-Values	Y-Values
5.00	10	10%			
		10%			
		10%			
		10%			
		10%			
		50%			

The gauge chart in the background shows a semi-circle with a needle pointing to 10%. The scale is marked at 0%, 20%, 40%, 60%, 80%, and 100%. A URL [www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html) is visible above the gauge.

# Step 2: Insert Function In Cell D2

The screenshot shows the Microsoft Excel interface. The formula bar at the top displays the formula  $=A2/B2*180$  in cell D2. Below the formula bar, a table is visible with the following data:

	A	B	C	D	E	F
1	Chart Value	Max	Slices	Degrees	X-Values	Y-Values
2	5.00	10	10%	90		
3			10%			
4			10%			
5			10%			
6			10%			
7			50%			

A green arrow points from the 'Slices' column (C) towards the gauge chart. The gauge chart is a semi-circle with a black dot at the center, showing a scale from 0% to 100% in 20% increments. The current value is 90 degrees, which corresponds to 50% of the scale. A URL [www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html) is visible in the background.

# Step 3: Select C2:C7, Insert Doughnut Chart

The screenshot shows the Microsoft Excel interface. The **Insert** tab is active, and the **Charts** group is expanded. The **Doughnut** chart icon is selected. A data table is visible in the background, and a Doughnut chart is being inserted into the worksheet.

	A	B	C	D	E
1	Chart Value	Max	Slices	Degrees	X-Values
2	5.00	10	10%	90	
3			10%		
4			10%		
5			10%		
6			10%		
7			50%		

Chart Title

Legend: 1 2 3 4 5 6

# Step 4: Delete Chart Title and Legend

The screenshot shows the Microsoft Excel interface with the 'Chart Design' ribbon selected. A donut chart is displayed on the worksheet, with two green arrows pointing to the 'Chart Title' and the legend below it, indicating they should be deleted. The chart data is as follows:

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90		
		10%			
		10%			
		10%			
		10%			
		50%			

The chart has a title 'Chart Title' and a legend with six items labeled 1 through 6. The legend items are: 1 (blue), 2 (orange), 3 (grey), 4 (yellow), 5 (dark blue), and 6 (green). The chart is currently selected, and the 'Chart Design' ribbon is active.

# Step 5: Click Chart, Format Data

The screenshot shows the Microsoft Excel interface with the 'Chart Design' tab selected. The ribbon includes 'Chart Layouts', 'Chart Styles', 'Data', 'Type', and 'Location' groups. The formula bar displays `=SERIES(,,'Gauge Chart'!$C$2:$C$7,1)`. The worksheet contains a table with the following data:

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90		
		10%			
		10%			
		10%			
		10%			
		50%			

The Gauge Chart is displayed on the right side of the worksheet. A context menu is open over a data point, with the 'Format Data Point...' option highlighted by a green box and a green arrow. The menu options are:

- Fill
- Outline
- Series 1 Point 6
- Delete Series
- Reset to Match Style
- Change Series Chart Type...
- Select Data...
- 3-D Rotation...
- Add Data Label
- Add Trendline...
- Format Data Point...

The status bar at the bottom shows 'Gauge Chart' and 'Blank' tabs.

# Step 6: Format Data, Apply No Fill & No Line

The screenshot shows the Microsoft Excel interface with the following details:

- File Name:** 10. Gauge Chart
- Ribbon:** Chart Design
- Formula Bar:** =SERIES(,,'Gauge Chart'!\$C\$2:\$C\$7,1)
- Data Table:**

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90		
		10%			
		10%			
		10%			
		10%			
		50%			
- Chart:** A semi-circular gauge chart with segments in blue, orange, grey, and yellow. A green arrow points to the chart.
- Format Data Point Task Pane:**
  - Series Options:** No fill (selected), Solid fill, Gradient fill, Picture or texture fill, Pattern fill, Automatic, Vary colors by slice (checked).
  - Border:** No line (selected), Solid line.



# Step 7: Format Area, Apply No Fill & No Line

The screenshot displays the Microsoft Excel interface with a Gauge Chart. The ribbon is set to 'Chart Design' and 'Format'. The 'Format Chart Area' task pane is open on the right, showing 'No fill' and 'No line' selected for the chart area. A green arrow points to the chart area in the task pane. The chart is a gauge chart with a scale from 0% to 100% and a needle pointing to 5.00. The chart area is currently filled with a light gray color and has a black border. A green arrow points to the chart area in the task pane, indicating the step to apply 'No fill' and 'No line'.

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90		
		10%			
		10%			
		10%			
		10%			
		50%			

**Format Chart Area**

**Chart Options** Text Options

**Fill**

- No fill
- Solid fill
- Gradient fill
- Picture or texture fill
- Pattern fill
- Automatic

**Border**

- No line
- Solid line
- Gradient line
- Automatic

# Step 8: Type "0" In Cells E2:F2

The screenshot shows the Microsoft Excel interface with the following data and visual elements:

	A	B	C	D	E	F
1	Chart Value	Max	Slices	Degrees	X-Values	Y-Values
2	5.00	10	10%	90	0	0
3			10%			
4			10%			
5			10%			
6			10%			
7			50%			

The gauge chart on the left is a semi-circular arc divided into five segments: blue, orange, grey, yellow, and blue. A green arrow points to the orange segment. The unit circle diagram on the right is a semi-circle with a black dot at the center and percentage labels (0%, 20%, 40%, 60%, 80%, 100%) around its perimeter.

[www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html)

# Step 9: Insert SIN & RADIANS Function

The screenshot shows the Microsoft Excel interface with the following elements:

- Formula Bar:** Contains the formula `=SIN(RADIANS(D2))`, which is highlighted with a green box.
- Worksheet Grid:**

	A	B	C	D	E	F
1	Chart Value	Max	Slices	Degrees	X-Values	Y-Values
2	5.00	10	10%	90	0	0
3			10%			1
4			10%			
5			10%			
6			10%			
7			50%			
- Visualizations:**
  - A semi-circular gauge chart with a needle pointing to 50%.
  - A circular gauge chart with segments in blue, orange, grey, and yellow.
  - A semi-circular gauge chart with a needle pointing to 50% and labels for 0%, 20%, 40%, 60%, 80%, and 100%.
- URL:** [www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html)

# Step 10: Insert COS & RADIANS Function

The screenshot shows the Microsoft Excel interface. The formula bar at the top displays the formula `=COS(RADIANS(D2))` in cell E3. The spreadsheet contains the following data:

	A	B	C	D	E	F
1	Chart Value	Max	Slices	Degrees	X-Values	Y-Values
2	5.00	10	10%	90	0	0
3			10%		6.1257E-17	1
4			10%			
5			10%			
6			10%			
7			50%			

A green arrow points from the value 6.1257E-17 in cell E3 to a gauge chart. The gauge chart is a semi-circle with a black dot at the center. The scale is marked from 0% to 100% in 20% increments. The needle points to 0%. To the left of the gauge chart is a circular gauge with five segments: blue, orange, grey, yellow, and blue.

[www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html)

# Step 11: Right-Click Chart, Select Data

Microsoft Excel interface showing a Gauge Chart. The ribbon includes File, Home, Insert, Page Layout, Formulas, Data, Review, View, Developer, Help, Chart Design, and Format. The Chart Design ribbon is active, showing options for Conditional Formatting, Format as Table, Cell Styles, Insert, Delete, Format, and Editing.

The formula bar shows: `=SERIES(,,'Gauge Chart'!$C$2:$C$7,1)`

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

The chart is a gauge chart with a green arrow pointing to the 60% mark. The chart is divided into segments of 10% each, with the final segment being 50%. The chart is titled "Gauge Chart" and is located on the "Blank" sheet.

A right-click context menu is open over the chart, with the "Select Data..." option highlighted. The menu includes options: Delete, Reset to Match Style, Change Series Chart Type..., Select Data..., 3-D Rotation..., Add Data Labels, Add Trendline..., and Format Data Series... The "Select Data..." option is highlighted with a green box.

The chart is linked to a data source: [www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html). The chart shows a gauge with a needle pointing to 60%.

At the bottom, the sheet tabs are labeled "Gauge Chart" and "Blank".

# Step 12: Add Series

10. Gauge Chart

File Home Insert Page Layout Formulas Data Review View Developer Help Chart Design Format

Clipboard Font Alignment

General Conditional Formatting Insert Delete Format

Format as Table Cell Styles Sort & Filter Find & Select

Comments Share

Chart data range: ='Gauge Chart'!\$C\$2:\$C\$7

Switch Row/Column

Legend Entries (Series)

Add Edit Remove

Horizontal (Category) Axis Labels

Edit

Series1

1 2 3 4 5

Hidden and Empty Cells

OK Cancel

C2 =COS(RADIANS(D2))

	A	B	C	D	E	F
1	Chart Value	Max	Slices	Degrees	X-Values	Y-Values
2	5.00	10	10%	90	0	0
3			10%		6.1257E-17	1
4			10%			
5			10%			
6			10%			
7			50%			

Gauge Chart Blank

# Step 13: Type "needle", Select Range, Press Ok

The screenshot shows the Microsoft Excel interface with a Gauge Chart. The chart is a semi-circular gauge with a needle pointing to 0%. The chart is composed of several segments in orange, blue, yellow, and grey. The data table below the chart shows the following values:

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

The 'Edit Series' dialog box is open, showing the following settings:

- Series name: needle
- Series values: ='Gauge Chart'!\$F\$2:\$F\$3

A green arrow points to the 'OK' button in the dialog box.

The formula bar shows the formula:  $=\text{COS}(\text{RADIANS}(D2))$

# Step 14: Press OK

The screenshot shows the Microsoft Excel interface with the 'Gauge Chart' selected. The 'Select Data Source' dialog box is open, and a green arrow points to the 'OK' button. The dialog box contains the following information:

**Chart data range:** [Empty field]

The data range is too complex to be displayed. If a new range is selected, it will replace all of the series in the Series panel.

**Legend Entries (Series)**

- Series1
- needle

**Horizontal (Category) Axis Labels**

- 1
- 2
- 3
- 4
- 5

**Worksheet Data:**

	A	B	C	D	E	F
1	Chart Value	Max	Slices	Degrees	X-Values	Y-Values
2	5.00	10	10%	90	0	0
3			10%		6.1257E-17	1
4			10%			
5			10%			
6			10%			
7			50%			



# Step 15: Right-Click, Change Chart Type

The screenshot displays the Microsoft Excel interface. The ribbon is set to 'Chart Design'. A Gauge Chart is selected, and a right-click context menu is open over it. The menu item 'Change Series Chart Type...' is highlighted with a green box. Below the main menu, a secondary menu is visible with 'Fill' and 'Outline' options, and a dropdown for 'Series "needle"'. The background shows a worksheet with the following data:

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

The chart is a gauge with a needle pointing to 5.00. The background shows a worksheet with the following data:

[www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html)

60% 80% 100%

0%

Fill Outline Series "needle"

# Step 16: Select Combo, Select Chart Type

The screenshot shows the 'Change Chart Type' dialog box in Microsoft Excel. The dialog is open over a worksheet with a gauge chart. The 'Combo' chart type is selected in the left-hand list. The 'Custom Combination' section shows a preview of a gauge chart with a doughnut chart and a scatter plot with a straight line. The 'Series Name' table below shows 'Series1' set to 'Doughnut' and 'needle' set to 'Scatter with Straight Lin...'. The 'OK' button is highlighted.

Series Name	Chart Type	Secondary Axis
Series1	Doughnut	<input type="checkbox"/>
needle	Scatter with Straight Lin...	<input checked="" type="checkbox"/>

# Step 17: Right-Click, Select Data

The screenshot shows the Microsoft Excel interface with a gauge chart. The chart is based on the following data from the spreadsheet:

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

The chart displays a semi-circular gauge with a needle pointing to 50%. The background is divided into segments labeled 0%, 20%, 40%, 60%, 80%, and 100%. A right-click context menu is open over the plot area, with the 'Select Data...' option highlighted in a green box. A green arrow points to this option. The context menu also includes options like 'Delete', 'Reset to Match Style', 'Change Chart Type...', 'Save as Template...', '3-D Rotation...', and 'Format Plot Area...'. The Excel ribbon shows the 'Chart Design' and 'Format' tabs, and the 'Home' tab is active. The status bar at the bottom indicates 'Gauge Chart' and 'Blank'.

# Step 18: Select Needle, Edit Series, Press OK

The screenshot shows the Microsoft Excel interface with a Gauge Chart. The chart is based on data from cells A2:F2. The 'Select Data Source' dialog box is open, and the 'needle' series is selected in the Legend Entries (Series) list. The 'OK' button is highlighted with a green box. A green arrow points from the 'needle' series in the chart to the 'needle' entry in the dialog.

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

Legend Entries (Series)

- Series1
- needle

Horizontal (Category) Axis Labels

- 1
- 2

OK Cancel

# Step 19: Edit Series, Press OK

The screenshot shows the Microsoft Excel interface with a Gauge Chart. The chart is a semi-circular gauge with a needle pointing to 50%. The data table below the chart is as follows:

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

The 'Edit Series' dialog box is open, showing the following settings:

- Series name: = "needle"
- Series X values: ='Gauge Chart'!\$E\$2:\$E\$3
- Series Y values: ='Gauge Chart'!\$F\$2:\$F\$3

The 'OK' button is highlighted with a green arrow.

# Step 20: Right-Click X-axis, Format Axis

The screenshot shows the Microsoft Excel interface with a gauge chart. The chart is based on data from a table. A context menu is open over the X-axis of the chart, and the 'Format Axis...' option is highlighted with a green box. A green arrow points to the X-axis of the chart.

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

The gauge chart shows a semi-circle with a black dot at the center. The chart is divided into segments labeled 40%, 60%, 80%, and 100%. The X-axis of the chart is labeled with values 0, 1E-17, 2E-17, 3E-17, 4E-17, and 5E-17. The Y-axis is labeled with values 0, 0.2, 0.4, 0.6, 0.8, 1, and 1.2.

The context menu options are:

- Delete
- Reset to Match Style
- Font...
- Change Chart Type...
- Select Data...
- 3-D Rotation...
- Add Minor Gridlines
- Format Major Gridlines...
- Format Axis...

The 'Format Axis...' option is highlighted with a green box. A green arrow points to the X-axis of the chart.

# Step 21: Edit Bounds

Microsoft Excel interface showing the 'Format Axis' task pane for a gauge chart. The chart is a semi-circular gauge with a needle pointing to 5.00. The task pane is open to the 'Axis Options' section, where the 'Bounds' are being edited. A green arrow points to the 'Maximum' value of 1.0.

**Chart Data:**

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

**Format Axis - Axis Options**

**Bounds**

- Minimum: -1.0 (Reset)
- Maximum: 1.0 (Reset)

**Units**

- Major: 0.5 (Auto)
- Minor: 0.1 (Auto)

**Vertical axis crosses**

- Automatic
- Axis value (0.0)
- Maximum axis value

**Display units**: None

# Step 22: Edit Y-Axis Bounds

The screenshot shows the Microsoft Excel interface with the following elements:

- Excel Ribbon:** File, Home, Insert, Page Layout, Formulas, Data, Review, View, Developer, Help, Chart Design, Format.
- Chart Data Table:**

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		50%			
- Format Axis Task Pane:**
  - Axis Options:** Bounds (highlighted with a green box)
    - Minimum: -1.0 (Reset)
    - Maximum: 1.0 (Reset)
  - Units: Major (0.2, Auto), Minor (0.04, Auto)
  - Horizontal axis crosses:  Automatic,  Axis value (0.0),  Maximum axis value
  - Display units: None



# Step 23: Edit Angle Of Slice to 270 degrees

Microsoft Excel interface showing a Gauge Chart. The chart is a semi-circle with a needle pointing to 5.00. The data table is as follows:

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

The chart is displayed on a coordinate plane with X and Y axes ranging from -1 to 1. A semi-circle is drawn from (-1, 0) to (1, 0). The needle is a vertical line from the center (0, 0) to the top of the semi-circle at (0, 1). The semi-circle is divided into segments of different colors: blue, orange, grey, yellow, and blue. The segments are labeled with percentages: 20%, 40%, 60%, 80%, and 100%.

The **Format Data Series** task pane is open on the right, showing the **Series Options** section. The **Angle of first slice** is set to 270 degrees, highlighted with a green box and a green arrow.

At the bottom of the Excel window, the **Gauge Chart** and **Blank** tabs are visible.

# Step 24: Click Needle, Edit Color

The screenshot shows the Microsoft Excel interface with a Gauge Chart. The chart is titled "Chart 10" and is located in the "Gauge Chart" worksheet. The chart displays a needle pointing to the value 5.00 on a scale from 0 to 10. The chart is composed of several data series, including a needle and a semi-circular gauge. The needle is currently black, and the task pane shows the "Color" dropdown menu open, with a green arrow pointing to the color selection icon.

The data table for the Gauge Chart is as follows:

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

The task pane shows the following options:

- Series Options: Line (selected), Marker
- Line:  Solid line,  No line,  Gradient line,  Automatic
- Color: [Color selection icon]
- Transparency: [Slider]
- Width: 2.25 pt
- Compound type: [Dropdown]
- Dash type: [Dropdown]

# Step 25: Delete X-Axis, Y-Axis and Area

The screenshot shows the Microsoft Excel interface with the 'Chart Design' and 'Format' tabs active. The 'Format Chart Area' task pane is open on the right, showing options for 'Fill' and 'Border'. The chart area is highlighted with green arrows, indicating the steps to delete the X-axis, Y-axis, and area.

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

Format Chart Area

Chart Options Text Options

Fill

- No fill
- Solid fill
- Gradient fill
- Picture or texture fill
- Pattern fill
- Automatic

Border

- No line
- Solid line
- Gradient line
- Automatic

# Step 26: Select Series, Edit Color

10. Gauge Chart

File Home Insert Page Layout Formulas Data Review View Developer Help Chart Design Format

Chart 10 :  $=SERIES(,,'Gauge Chart'!$C$2:$C$7,1)$

	A	B	C	D	E	F
1	Chart Value	Max	Slices	Degrees	X-Values	Y-Values
2	5.00	10	10%	90	0	0
3			10%		6.1257E-17	1
4			10%			
5			10%			
6			10%			
7			50%			

Format Data Point

Series Options

Fill

- No fill
- Solid fill
- Gradient fill
- Picture or texture fill
- Pattern fill
- Automatic
- Vary colors by slice

Color

Transparency 0%

Border

# Step 27: Select Series, Edit Color

10. Gauge Chart

File Home Insert Page Layout Formulas Data Review View Developer Help Chart Design Format

Chart 10 :  $=SERIES(, 'Gauge Chart'!$C$2:$C$7, 1)$

	A	B	C	D	E	F
1	Chart Value	Max	Slices	Degrees	X-Values	Y-Values
2	5.00	10	10%	90	0	0
3			10%		6.1257E-17	1
4			10%			
5			10%			
6			10%			
7			50%			

[www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html)

Format Data Point

Series Options

Fill

- No fill
- Solid fill
- Gradient fill
- Picture or texture fill
- Pattern fill
- Automatic
- Vary colors by slice

Color

Border

- No line

# Step 28: Select Series, Edit Color

The screenshot shows the Microsoft Excel interface with a Gauge Chart. The chart is based on the following data table:

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

The 'Format Data Point' task pane is open on the right, showing the following settings:

- Series Options:** The 'Gauge' icon is selected.
- Fill:**
  - No fill
  - Solid fill
  - Gradient fill
  - Picture or texture fill
  - Pattern fill
  - Automatic
  - Vary colors by slice
- Color:** A color selection icon is highlighted with a green arrow.
- Transparency:** Set to 0%.
- Border:** (Section partially visible)

# Step 29: Select Series, Edit Color

The screenshot shows the Microsoft Excel interface with a gauge chart. The chart is a semi-circular gauge with a needle pointing to 50%. The data table is as follows:

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

The 'Format Data Point' task pane is open on the right, showing 'Series Options' and 'Fill' settings. The 'Color' dropdown is highlighted with a green arrow.

# Step 30: Select Series, Edit Color

Microsoft Excel interface showing a Gauge Chart and its data source.

**Chart 10** :  $=SERIES(,,'Gauge Chart'!$C$2:$C$7,1)$

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		10%			
		50%			

The chart displays a gauge with a needle pointing to 5.00. The gauge is divided into segments of varying colors (red, orange, yellow, green) representing different percentage ranges. A large green arrow points to the green segment of the gauge.

**Format Data Point** pane (Series Options):

- Vary colors by slice
- Color:  (Color selection icon highlighted with a green arrow)
- Transparency: 0%

Additional elements: A URL [www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html) is visible in the background. The bottom of the window shows the 'Gauge Chart' and 'Blank' tabs.



# Step 31: Edit Chart Size To Fit The Gauge

Microsoft Excel interface showing a gauge chart. The ribbon includes File, Home, Insert, Page Layout, Formulas, Data, Review, View, Developer, Help, Chart Design, and Format. The Chart Design ribbon is active, showing options for Chart Tools, Styles, and Editing.

The worksheet contains the following data:

	A	B	C	D	E	F
1	Chart Value	Max	Slices	Degrees	X-Values	Y-Values
2	5.00	10	10%	90	0	0
3			10%		6.1257E-17	1
4			10%			
5			10%			
6			10%			
7			50%			

The gauge chart is displayed on the right side of the worksheet. It features a semi-circular scale from 0% to 100% with a needle pointing to 50%. A large green arrow points to the chart's border, indicating the area for editing the chart size. A URL [www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html) is visible in the background.

# Step 32: Drag Chart, Put Above The Gauge

The screenshot displays the Microsoft Excel interface with the 'Chart Design' ribbon active. A gauge chart is positioned in the lower right area of the worksheet. The gauge is a semi-circle divided into five segments: red (0-20%), orange (20-40%), yellow (40-60%), light green (60-80%), and dark green (80-100%). A black needle points to the 50% mark. A large green arrow points towards the gauge from the left. The chart is surrounded by a selection border with handles. To the left of the gauge, a data table is visible in the worksheet.

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		6.1257E-17	1
		10%			
		10%			
		50%			

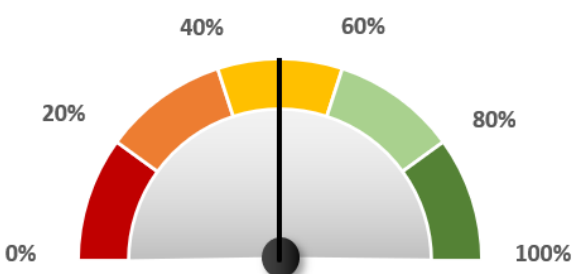
Below the table, a URL is visible: [www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html)

The Excel interface includes the standard ribbon (File, Home, Insert, Page Layout, Formulas, Data, Review, View, Developer, Help, Chart Design, Format) and the 'Chart Design' ribbon with various options like Conditional Formatting, Format as Table, Cell Styles, Insert, Delete, Format, Sort & Filter, and Find & Select. The status bar at the bottom shows 'Gauge Chart' and 'Blank' tabs.

# Step 33: Put "-" COS & RADIANS Function

Microsoft Excel interface showing a spreadsheet with a gauge chart. The formula bar displays `=-COS(RADIANS(D2))` in cell E3. A green arrow points from the formula bar to cell E3, which contains the value `-6.126E-17`. The gauge chart below shows a semi-circle with a needle pointing to 0%.

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		-6.126E-17	1
		10%			
		10%			
		10%			
		50%			



[www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html)

# Step 34: Change Value, Make Sure It Works

The screenshot shows the Microsoft Excel interface with a gauge chart and a data table. The gauge chart is a semi-circle with a needle pointing to 90%. A green arrow points to the needle. The data table below it has columns for Chart Value, Max, Slices, Degrees, X-Values, and Y-Values. The value 9.00 in cell A2 is highlighted with a green box.

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
9.00	10	10%	162	0	0
		10%		0.95105652	0.309016994
		10%			
		10%			
		10%			
		50%			

[www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html)

# Step 35: Completed

Microsoft Excel interface showing a completed gauge chart. The ribbon includes File, Home, Insert, Page Layout, Formulas, Data, Review, View, Developer, and Help. The Home ribbon is active, showing options for Clipboard, Font, Alignment, Number, Styles, Cells, Editing, and Add-ins.

The active cell is A2, containing the value 5. The formula bar shows the formula =5.

Chart Value	Max	Slices	Degrees	X-Values	Y-Values
5.00	10	10%	90	0	0
		10%		-6.126E-17	1
		10%			
		10%			
		10%			
		50%			

The gauge chart is a semi-circle with a vertical needle pointing to the 50% mark. The chart is divided into segments: 0% to 20% (red), 20% to 40% (orange), 40% to 60% (yellow), 60% to 80% (light green), and 80% to 100% (dark green). The needle is positioned at the 50% mark.

A link is visible in the background: [www.mathisfun.com/geometry/unit-circle.html](http://www.mathisfun.com/geometry/unit-circle.html)

The bottom status bar shows the active workbook is "Gauge Chart" and the current sheet is "Blank".