## Fidget Spinner

 AutoCAD TutorialSuitable for Grades 8-9

## 曷 In This Tutorial You Will Learn...

- How to draw a fidget spinner on AutoCAD!
- You will be using the following commands:
- CIRCLE
- LINE
- TRIM
- MIRROR
- DIMLIN/DIMRAD
- HATCH
- LAYERS


## Today You Will Be Making... A Fidget Spinner!

## Let's Get Started!

- This tutorial shows step-by-step how we created the fidget spinner on the previous slide
- You do not have to follow this tutorial exactly!
- If you want, come up with your own fidget spinner design and use this tutorial as a guide as to how you can create it
- Or, follow this tutorial and pick what colours you want your fidget spinner to be
- Check out the "AutoCAD Commands CheatSheet" for more commands than the ones we use here


Remember to save your drawing at the beginning of the tutorial using the SAVEAS command

## Save your drawing periodically throughout this tutorial using the SAVE command









- We will continue with the three ends of our fidget spinner
- Draw a circle with a radius of 32 units from the endpoint of each line we drew previously
- CIRCLE -> Grip endpoint -> 32
- Do this for all three lines

CRCLE
Specify center point for circle or [3P/2P/Ttr ( $\tan \tan$ radius)]:
Specify radius of circle or [Diameter] <32.e日e日>:


- Now let's draw the classic fidget spinner shape using FILLET
- Type "FILLET" into the command bar and press enter
- Type "r" and press enter
- Specify a radius of 32 units and press enter
- $\quad$ Select one outer circle as your first object
- Select an adjacent circle as your second object
- A fillet should be made between the two circles
- Do this for all three sides

- Let's continue making the three ends of our fidget spinner
- Draw a circle with a radius of 8 units from the endpoint of each line we drew previously
- CIRCLE -> Grip endpoint -> 8
- Do this for all three lines

x
CIRCLE
pecify center point for circle or [3P/2P/Ttr (tan $\tan$ radius)]: Specify radius of circle or [Diameter] <11.0000>: 11




Set your current layer to the new layer you just made by double clicking on the layer


- A green check mark should appear



- Specify the first point of the mirror line as the top of the vertical red line by clicking down on it
- Specify the second point of the mirror line at the bottom of the vertical red line by clicking down on it
- Type " $n$ " into the command bar to specify that we do not want to delete the source objects
- The three angled red lines should now be mirrored to the other half of the circle

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- Select the inner portion of the circle to erase to erase it



- Use the HATCH command to add colour to your drawing
- Type "HATCH" into the command bar and press enter
- Click on the area you want to fill
- In the "Hatch Editor" select solid fill
- Select what colour you want your fidget spinner to be
- You can also make your solid fill a gradient by clicking on the "Solid" drop-down menu $a^{Y} \times$



- If you are curious, these are the dimensions of our drawing
- If you want to, you can dimension your drawing by using the commands DIMLIN and DIMRAD
- Make a new layer for these annotations
- Check out the "AutoCAD Commands Cheat-Sheet" for more information on how to do this!
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## Tutorial Complete!



Great job, you just made a fidget spinner using AutoCAD!

