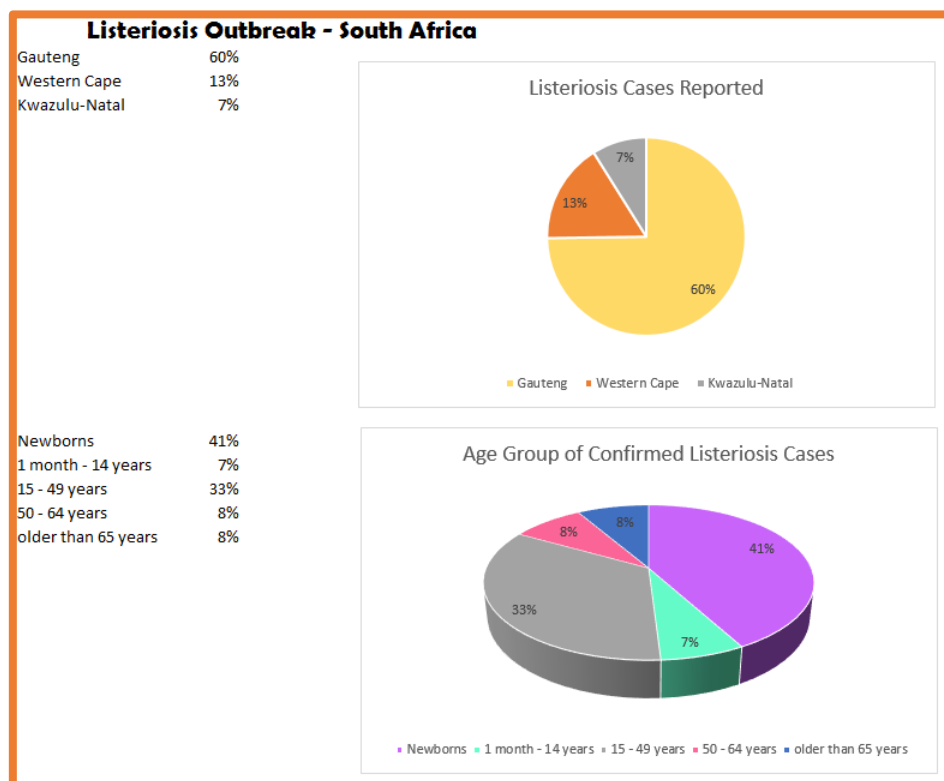




Integrated ICT Learning Unit

Case Data On The Listeriosis Outbreak



STRUCTURE OF LESSON CASE DATA ON LISTERIOSIS OUTBREAK

INTEGRATED LESSON	
Prior Learning Requirements	
Concept / Topic: Knowledge of spreadsheets	
ICT Skills: Entering data and creating pie graphs	
Tech Talk	5 Min
PRINT QUEUE List of files that are ready to be printed.	
Integrated Activity	20 Min
Learners create pie charts of Listeriosis cases in certain provinces of South Africa.	
Resources Used	
Software: Microsoft Excel	
Prerequisite: Listeriosis outbreak south africa_16 january 2018.pdf	
Template: None	
WWW: None	



INTEGRATED ACTIVITY

In order to promote relevant discussion, the following questions are posed by the educator to the learners:

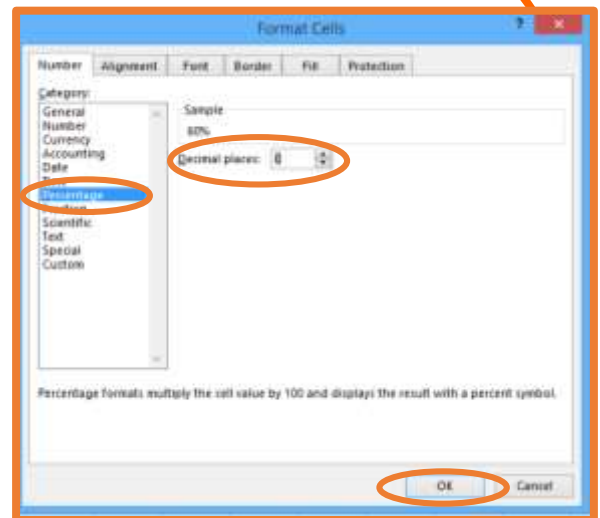
- **Do you know what Listeriosis is?**
- **In which provinces has Listeriosis cases been confirmed?**
- **What symptoms does Listeriosis cause?**

Task: Today you are going to create pie charts of Listeriosis cases in certain provinces of South Africa.

1. Open Microsoft Excel → double click on the shortcut icon on the desktop → **click Blank Workbook.**
2. Save your spreadsheet into your digital portfolio → **File → Save As → locate your portfolio → double click → type a suitable name in the file name box → Save**
3. Begin by inserting a suitable heading, click in cell **A1**, highlight to cell **F1 → Home Ribbon → Alignment tab → Merge and Center.**
4. Type the heading "Listeriosis Outbreak – South Africa".
5. Make the heading font larger → **Home Ribbon → Increase Font Size button → click till it's 16pt.**
6. Make the heading Bold → **Home Ribbon → Font tab → Bold.**
7. **Change the font → Home Ribbon → choose a suitable font.**
8. Using the statistics on the **Listeriosis outbreak south africa_16 january 2018.pdf**, the learner's will create a pie chart of the cases of Listeriosis outbreak in certain provinces of South Africa.
9. Click in cell A2 → type "Gauteng".
10. Click in cell A3 → type "Western Cape".
11. Click in cell A4 → type "Kwazulu-Natal".
12. Click in cell B2 → **using the Sum tool, work out the percentage of cases reported for Gauteng.**
13. Do the same for each of the above provinces.

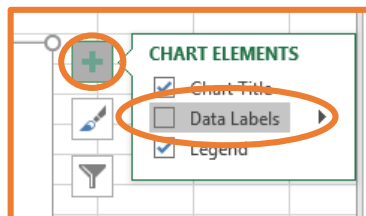


14. Format the cells to represent percentages.
15. Highlight cells **B2 – B4** → **right click** → **Format Cells** → **Percentage** → **Decimal places** → **make it 0** → **OK**.
16. Highlight cells **A2 – B4** → **Insert Ribbon** → **Charts tab** → **Pie Chart** **down arrow** → **choose 2-D Pie**. (Note how the pie graph is automatically populated).

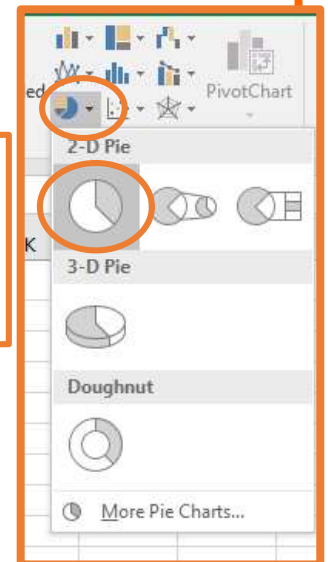


17. Add a chart title → click in the textbox **"Chart Title"** → Type **"Listeriosis Cases Reported"**.

18. Click on the chart, you will see tool boxes appear on the right of the chart → **click on Chart Elements** (the green plus "+" sign) → **tick the box Data Labels**.



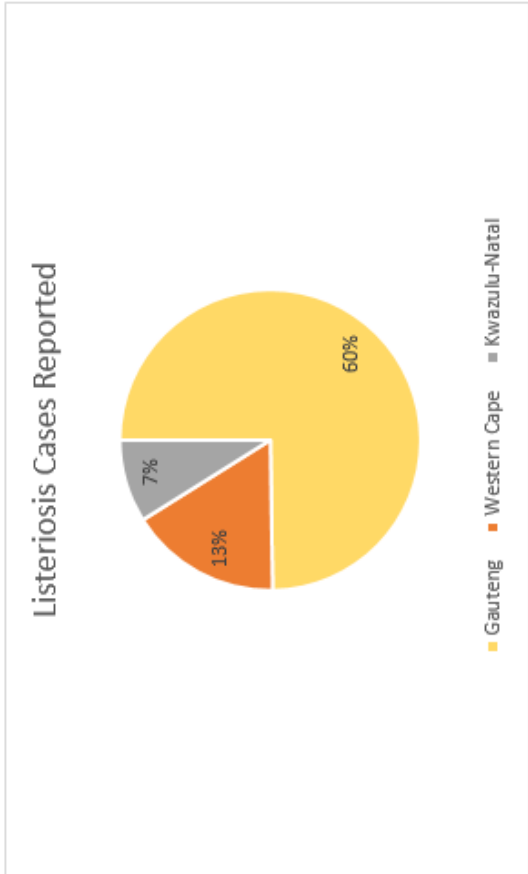
19. You can change the chart style → **Design Ribbon** → **Chart Styles tab** → **choose a suitable style**.



20. Work out the percentages of confirmed Listeriosis cases according to the different age groups. Create another pie chart as you did above to represent the figures.
21. Print your spreadsheet **File** → **Print** → **Print Button**.
22. Save your work → **File** → **Save** .
23. Close **Microsoft Excel** by **clicking** on **File** → **Close** or clicking on the top **X** at the top of your screen.

Listeriosis Outbreak - South Africa

Gauteng	60%
Western Cape	13%
Kwazulu-Natal	7%



Newborns	41%
1 month - 14 years	7%
15 - 49 years	33%
50 - 64 years	8%
older than 65 years	8%

