



Feidhmeannacht na Seirbhíse Sláinte  
Health Service Executive

Quality Improvement Division

Measurement for  
Improvement Team  
Quality Improvement Division



**Pressure Ulcers  
to Zero**

# Analysing and Displaying Pressure Ulcer data collected using a safety cross

Pressure Ulcers to Zero Collaborative - Day 2

20<sup>th</sup> June 2017

# The Story So Far...

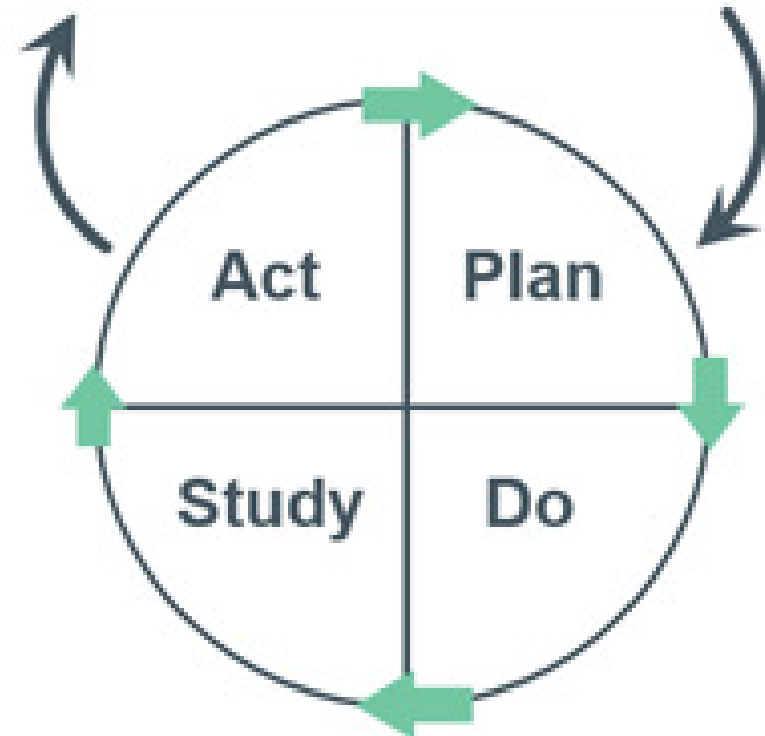
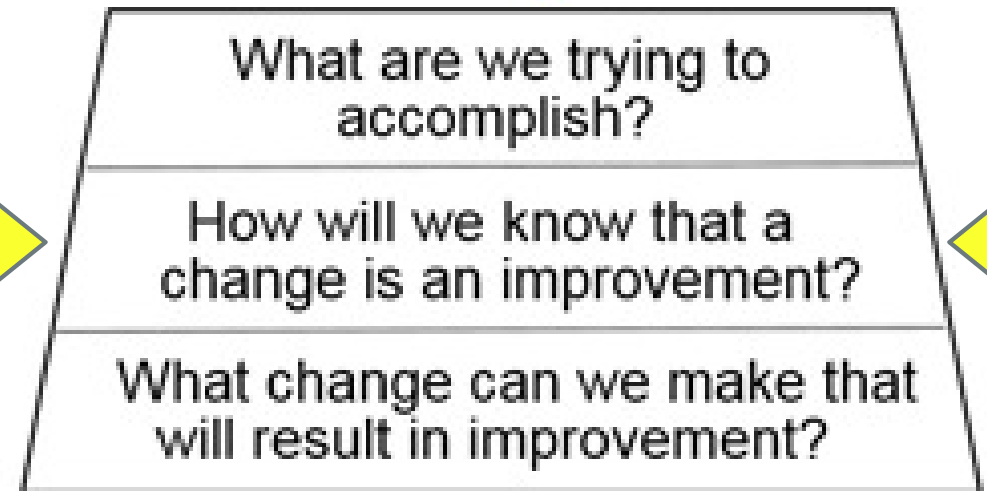
- ▶ You have a measure: the number of new ward acquired pressure ulcers
- ▶ You have a data collection tool: the safety cross
- ▶ You have a baseline: you collected some baseline Pressure Ulcer Incidence data using a safety cross
- ▶ You have now been collecting data for a few months

# The Next Steps

- ▶ You are now ready to start thinking about how you will analyse and display your data

- ▶ The way we analyse and display our data should help us when we are considering the second question in the model for improvement

## Model for Improvement



# Outline for today

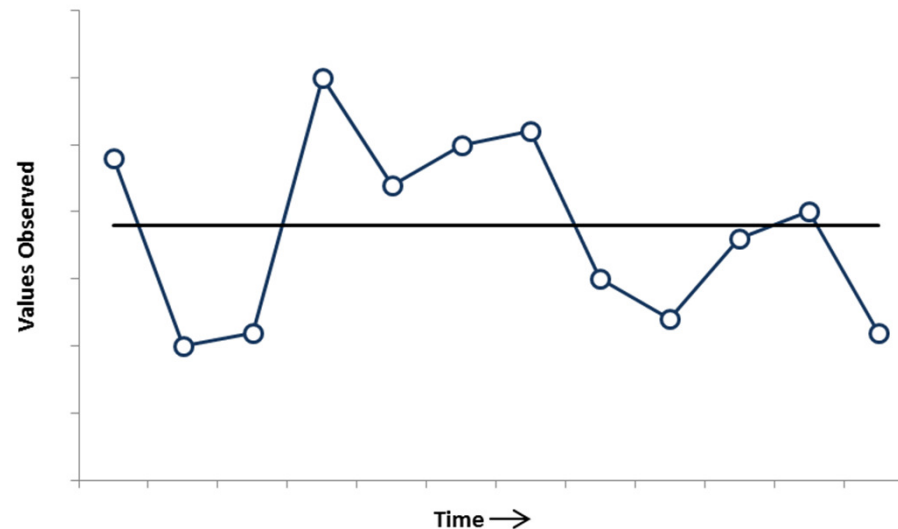
- ▶ Today we will concentrate on how to display our data
- ▶ We will do a practical exercise: using a flip chart and markers to draw a chart
- ▶ On day three, we will look at how to analyse the data in the chart



# Key Concept

The value of presenting data in time order

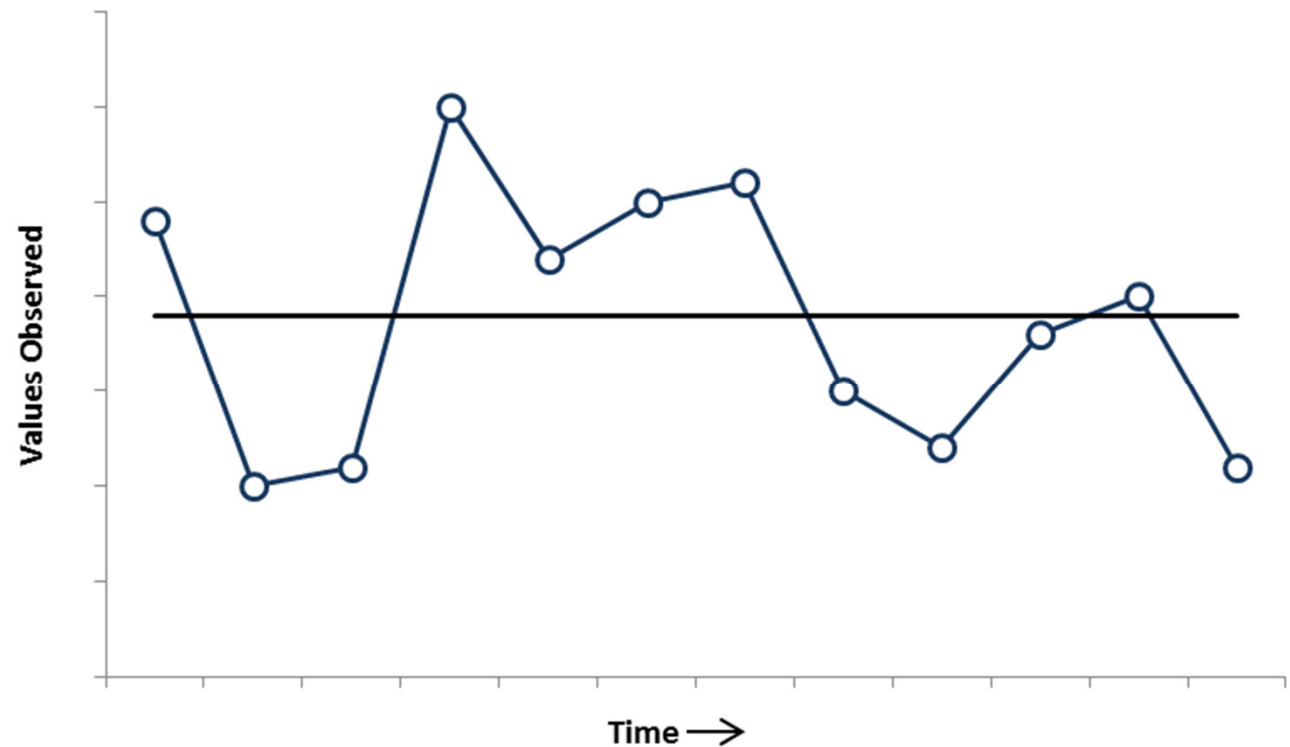
- The Run Chart is a tool that displays data in time order



# Anatomy of a Run Chart

There are 3 elements to run chart

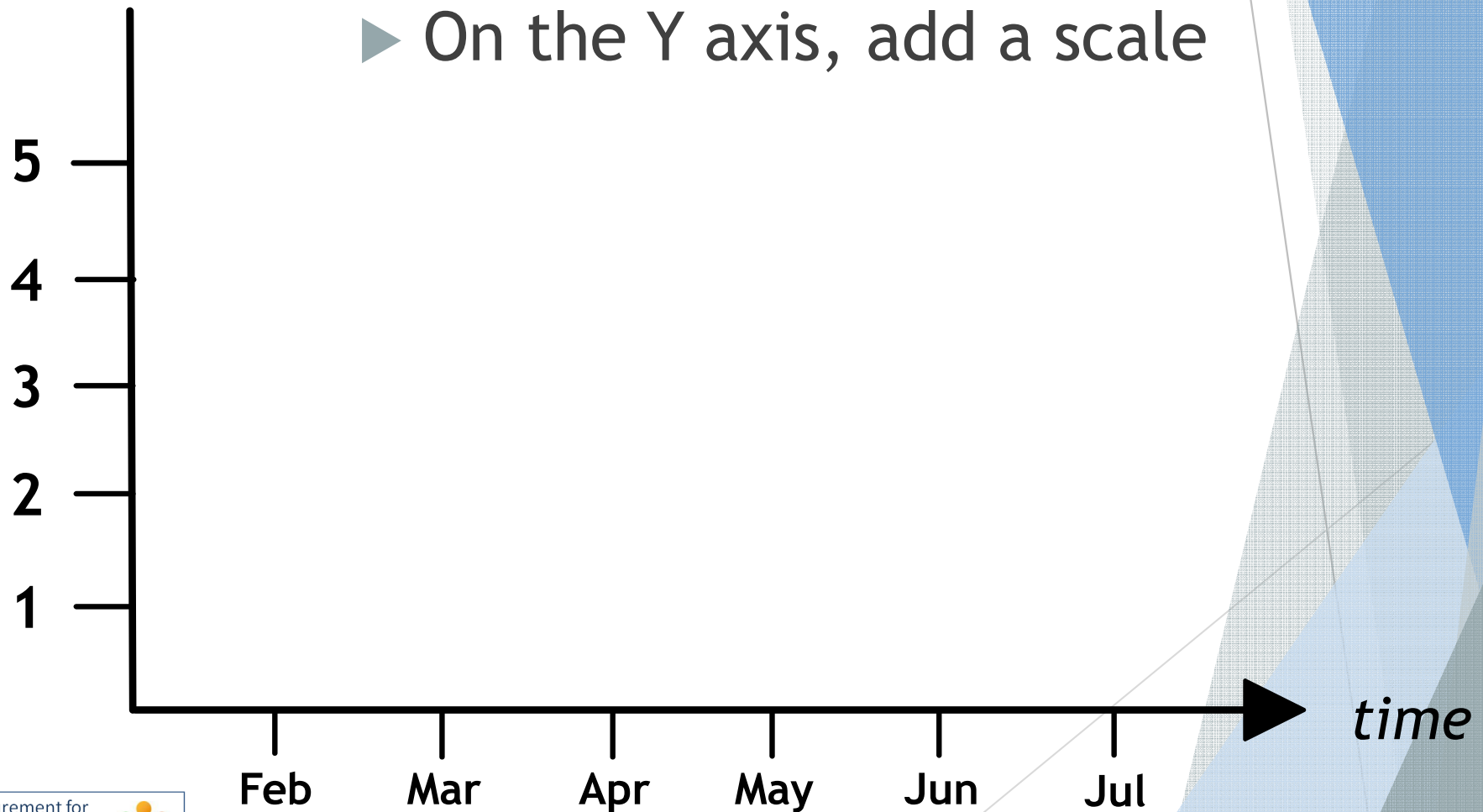
- ▶ Chart Axes
- ▶ Data
- ▶ Centerline




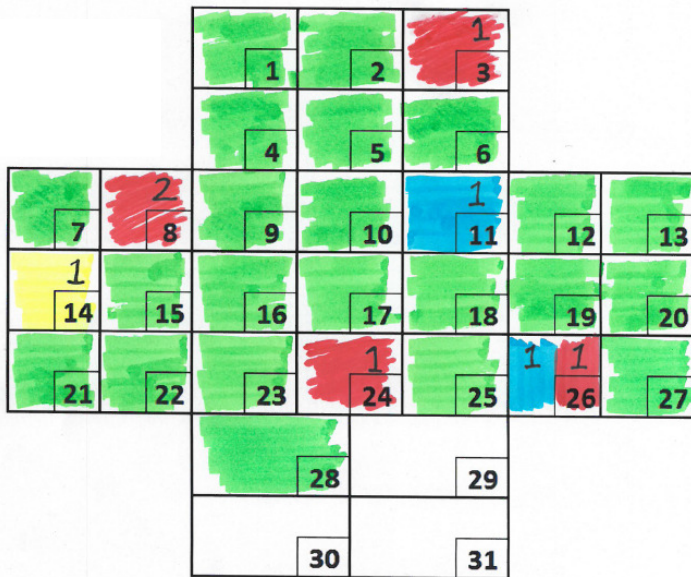
# Exercise - Part 1

## Draw your axes

- ▶ On the X axis, add months
- ▶ On the Y axis, add a scale



# We are now ready to add our data



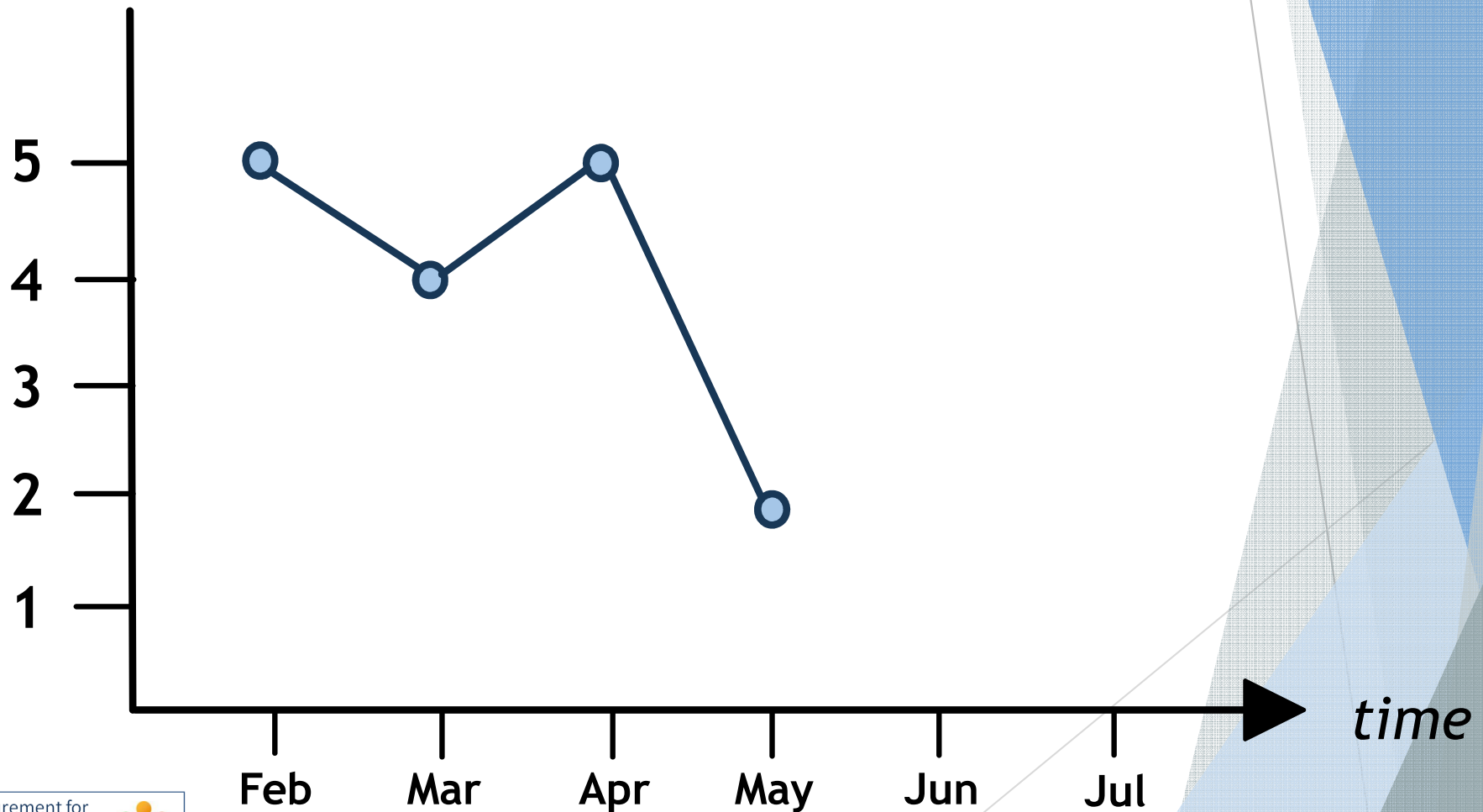
5

= the number of  
new Pressure  
Ulcers (ward-acquired)  
identified in  
February 2017



# Exercise - Part 2

Draw a point for each months no. of new ward acquired Pressure Ulcers and join each data point with a solid line



# The Median

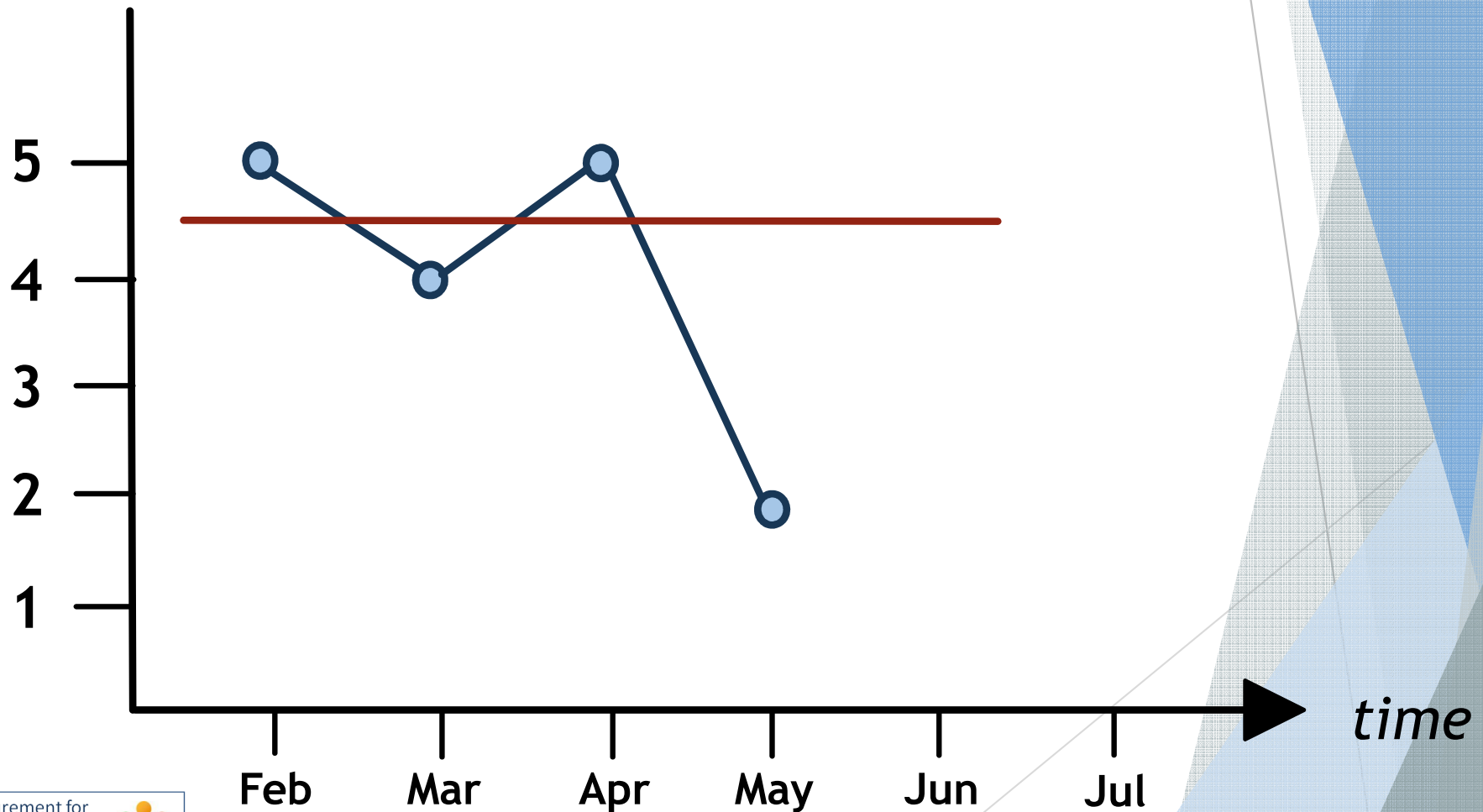
- ▶ Place your values in order (lowest to highest)
- ▶ The median is the middle value (half of the data is below the median and half of the data is above the median)
- ▶ If there are an even number of data points, the median is halfway between the middle two data points

1, 4, 5, 6, 7, 12

**Median = 5.5**

# Exercise - Part 3

Draw the Centerline - a straight line representing the median





# Calling all Measurement Heroes

- ▶ Later today, we will have a further session for those who wish to do their Run Charts in excel
- ▶ We are looking for one or two from each team to get further training on constructing a run chart using excel



# Measuring for Improvement



## 1. Safety Cross

- Maintain Safety Cross
- Is the safety cross visible to staff, patients and public?

## 2. Run chart

- Create a monthly run chart (7 data points by Sept '17)
- *“How to create and interpret run charts webinar”* available August 2017

# ACTION PERIOD:

## Measuring for Improvement



### 1. **Safety Cross**

- Maintain Safety Cross
- Is the safety cross visible to staff, patients and public?

### 2. **Run chart**

- Create a monthly run chart (7 data points by Sept '17)
- *“How to create and interpret run charts webinar”* available August 2017