AMA3020: Investigations

Report writing guidance



Goal

By the end of this session, students will be able to

- Plan the writing of the pair presentation report
- Self-assess their report drafts against the marking rubric
- Avoid common mistakes in written work



Rubric

Solo/Pairs/Presentation											
Criteria	Ratings										
Motivation	10 to >8.0 Pts Full marks No improvements possible	8 to >7.0 Pts High First There is a *critical* discussion of the context of the problem, the limitations of the model, and the possible extensions or improvements.	Fir Th cor wo	7 to >6.0 Pts First There is a discussion of the context of the problem (realworld applications, approximations, and extensions)		6 to >4.0 Pts 2.1 Some attempt is made to connect the problem to the broader context (e.g. the field of mathematics)	4 to >0 Pts Pass The problem is stated clearly	10 pts			
Solution	10 to >8.0 Pts Full marks No improvements possible	8 to >7.0 Pts High First The piece uses a well-structured narrative which explains the method of solution and the key results obtained using suitable diagrams and figures.		7 to >6.0 Pts First Key results and methods are illustrated using appropriate diagrams and figures	2.1 All de fig	terms in all equations are fined and explained, and the ures have all axes and tasets properly labelled.	4 to >0 Pts Pass At least one key result is shown	10 pts			



Total points: 20

Motivation

- Why should we care?
- What is the research question?
- Careful with 'real-world' applications
- Critical discussion



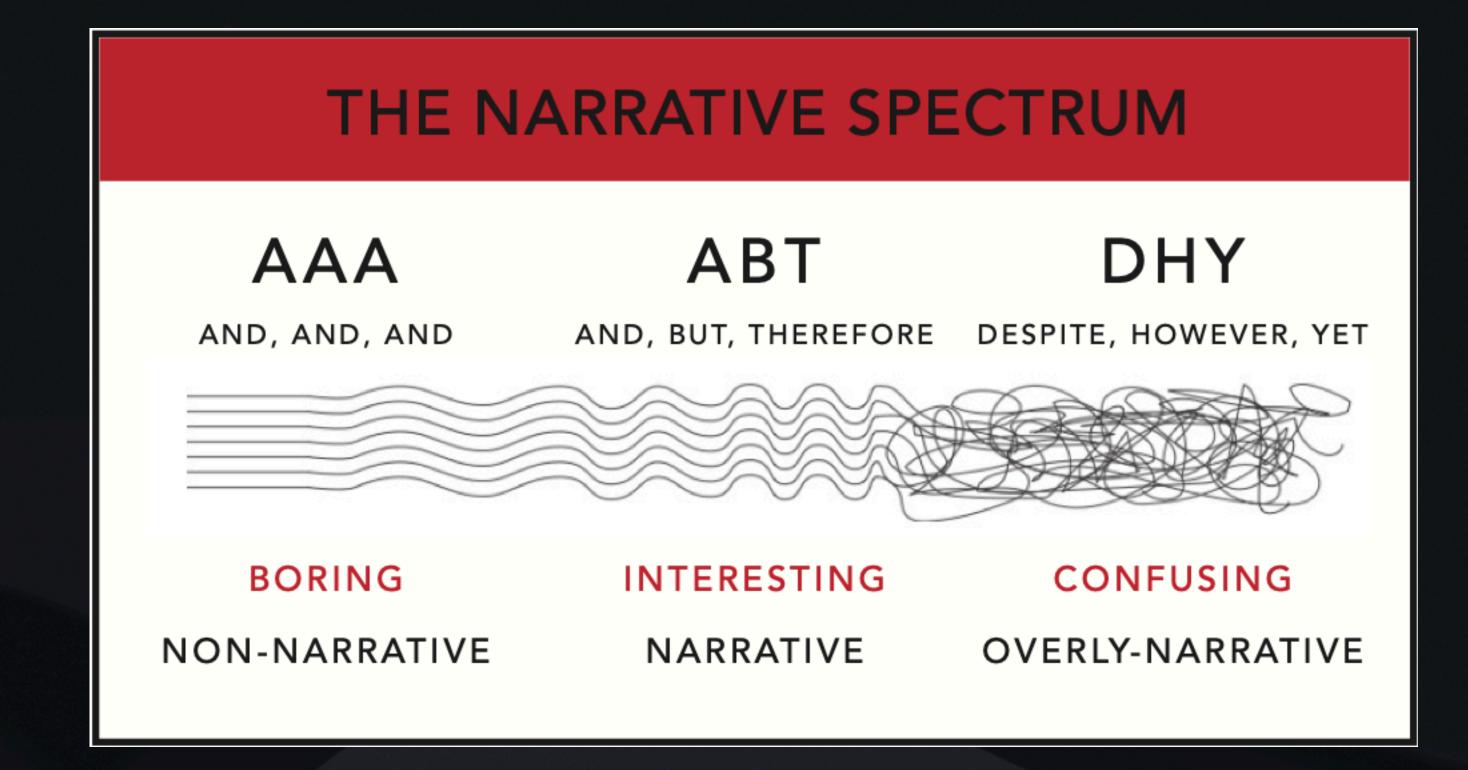
Solution

Solo/Pairs/Presentation											
Criteria	Ratings										
Motivation	10 to >8.0 Pts Full marks No improvements possible	8 to >7.0 Pts High First There is a *critical* discussion of the context of the problem, the limitations of the model, and the possible extensions or improvements.	to >6.0 Pts irst here is a discussion of the ontext of the problem (real-vorld applications, pproximations, and xtensions)		6 to >4.0 Pts 2.1 Some attempt is made to connect the problem to the broader context (e.g. the field of mathematics)	4 to >0 Pts Pass The problem is stated clearly	10 pts				
Solution	10 to >8.0 Pts Full marks No improvements possible	8 to >7.0 Pts High First The piece uses a well-structured narrative which explains the method of solution and the key results obtained using suitable diagrams and figures.	,	2.1 All de fig	to >4.0 Pts I terms in all equations are fined and explained, and the ures have all axes and tasets properly labelled.	4 to >0 Pts Pass At least one key result is shown	10 pts				



Solution

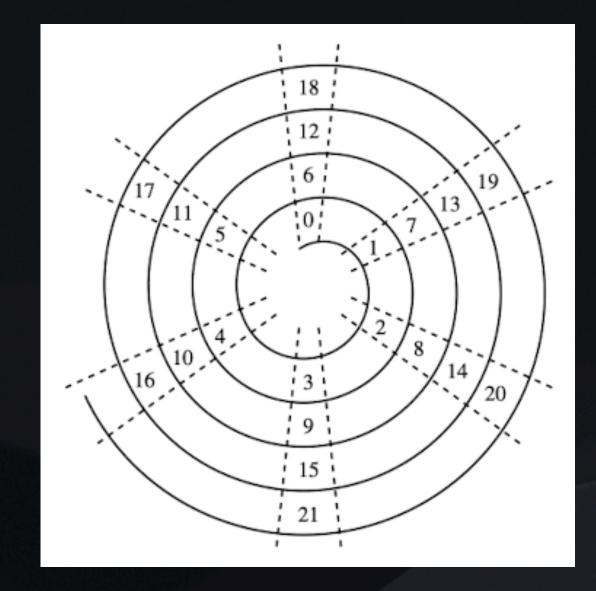
- No mention of derivation
- Story
- Pictures/Patterns

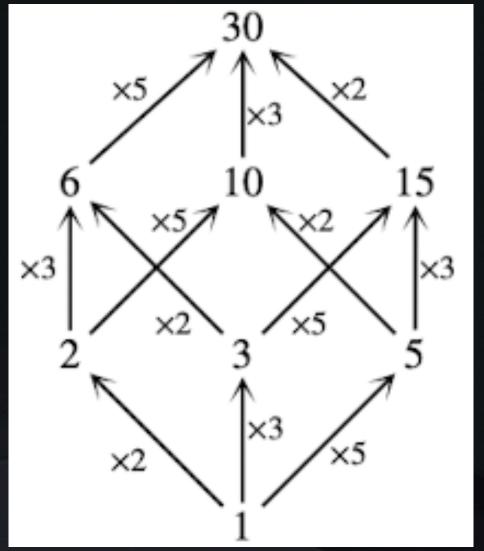




Solution

- No mention of derivation
- Story
- Pictures/Patterns







Strategy

- 1. Figures (results)
- 2. Captions
- 3. Story
- 4. Bullet point per outcome/ result

- 5. Paragraph per figure
- 6. Theory
- 7. Conclusion
- 8. Introduction



Dos and Don'ts

Do

- Use the template
- Use Grammarly
- Define all terms
- Use Axes labels, legends, colourbars...
- Reference the figures in the text

Don't

- Bury in detail
- Submit your first draft
- Use casual language
- Write in bullet points
- Plagiarise

