

## Sequencing and Scheduling

Distinguish between sequencing and scheduling.

Explain two advantages of using Gantt charts.

Examine the Gantt chart below.

- Calculate the approximate length of time the following activities will take:
  - final advertising
  - shop refit
  - contact 'Juice' re: opening
- Identify the least time consuming activity
- Identify the activities that can be performed concurrently.
- Outline the benefits to Mega Music Pty Ltd of constructing a Gantt chart.

Gantt chart for opening of Mega Music P/L  
2012

Activity/sequence	August	September	October	November	December
Register business	—				
Obtain shop lease	—				
Refit shop		—			
Purchase stock and establish supply chain		—			
Design flyer and plan opening			—		
Flyers printed			—		
Preliminary advertising: letterbox drop			—		
Advertise for junior casual staff (x4)			—		
Contact 'Juice' re: opening		—		—	
Final advertising				—	
Start trading					—
Christmas sale					

Gantt chart showing sequence and scheduling (timing)

Explain how critical path analysis assists in transformation processes.

**Challenge question (please attempt but know it isn't easy):**

On Saturday, I want to cook my family a big breakfast of toast, scrambled eggs and some bacon.

- It takes me 3 minutes to make the toast
- It takes 1 minute to break and whisk the eggs and then I need to put them in the microwave for a further 3 minutes.
- The grill takes 2 minutes to heat and bacon takes 4 minutes to cook under the grill.
- The breakfast takes me 1 minute to serve and a further 10 minutes to eat.
- Once I have eaten my breakfast I need to wash up which takes a further 2 minutes and then put the plates away which takes 2 minutes.

Create a critical path analysis diagram and calculate the quickest time I can take to make breakfast and clean up afterwards.