Step 1

a)

IOPS	Bottleneck	IOPS	Bottleneck	IOPS	Bottleneck
15625	NO	41687.5	NO	82812.5	NO

Step 2

b)

IOPS	Bottleneck	IOPS	Bottleneck	IOPS	Bottleneck
31250	NO	83375	NO	165625	NO

Step 1

The assumptions made in approximating I/O performance are extensive. From the approximation of I/O commands generated by the executing system through sequential and random I/O events handled by disks, the approximations are extensive. By benchmarking in a full system, or executing actual application an engineer can see actual numbers that are far more accurate than approximate calculations.