3) $30 \times 20 = 600 \, ms$, $1000 \, ms$ in 1 sec

There is 30 frame. 1 frame requires 20ms.
Every 8ms we are going at 4ms speed
so the ratio is 1 to 2. There is 1s
and 500ms is half of a second.
500ms + 600ms = 1100ms which is
greater than 1000ms so the system
is not schedualable because we only have
1000ms

$$\frac{1000}{8} \times 4 = 500$$

$$30 \times 20 = 600$$

4)

First Fit:
2KB is not enough so 4KB fit 8KB. 8KB fit 2nd 8KB. 16KB fit 20K
It restart every time.

Best Fit:
It would look for something close to.
4KB fit in 6KB. 8KB fit in 8KB. 16KB fit in 20KB

Next Fit:
Put it to the next one without rescan.
4KB fit is 8KB. 8KB fit in 8KB. 16KB fit in 20KB.

worst fit
Find the biggest spot to fit.
4KB fit in 32KB. 8KB fit in 28KB. 16KB fit in 20KB