1 Link the **start** of each sentence to its correct **end**.

start	end
The pixels ...	... refreshes pixels one after the other.
The raster scan ...	... triggers the start of a new raster scan.
The video signal ...	... are arranged in rows within each frame.
The line sync signal ...	... triggers the start of a new row in the scan.
The frame sync signal ...	... sets the brightness of the pixel being accessed.

2 Do calculations to complete the table for a monochrome video display.

pixels per frame	pixels per line	lines per frame
	833	625
131 072	512	
	540	405
76 800	320	

3 Complete the sentences. Use these words.

bottom frame left line pulsed raster refreshed right top video

A monitor screen uses a _____ scan to allow each pixel access to the _____ signal in turn. Pixels in a _____ are accessed from _____ to _____. Lines are scanned one after the other, from _____ to _____. The time taken to scan a whole _____ must be short enough for the image to be flicker-free. The pixels on CRT screens are _____ as the scan passes them, but those on LCD screens are _____ .

4 Do calculations to complete the table for a monochrome video display.

pixels per frame	frame refresh rate	video bit rate	video bandwidth
	70 Hz		6.0 MHz
	50 Hz	3 280 000 s^{-1}	
1 228 800	40 Hz		
543 116			16.3 MHz