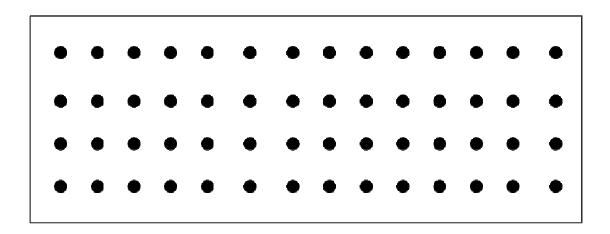
# Answer Form Experimental Problem No. 1

## Diode laser wavelength

## Task 1.1 Experimental setup.



1.1	Sketch the laser path in drawing and write down the height <i>h</i> of the beam	1.0
	as measured from the table	
	h =	

## Task 1.2 Expressions for optical path differences.

1.2	0.5

Task 1.3 Measuring the dark fringe positions and locations of the blade. Use additional sheets if necessary.

### TABLE I

n	$l_{ m R}$	$l_{ m L}$	

1.0	D ( ); ( ) ( ) ( ) ( ) ( ) ( ) ( )	1 6:	12.25
1.3	Report positions of the blade and labe	el of instrument:	3.25
	$L_b =$	LABEL:	
	$L_a =$	LABEL:	
	$d = L_b - L_a =$	LABEL:	
Task	x 1.4 Performing a statistical and gra	aphical analysis.	
1.4			2.25
1.4			3.25
1 1			

Task 1.5 Calculating  $\lambda$ .

1 5		2
1.5		2
	Write down the value of $\lambda$ .	
	William Control of the	
	2	
	$\lambda =$	