

$t=0$		1, 2	
$t=3$			$\rightarrow 30 \% 37$
$t=103$		3, 4, 5	$\rightarrow 35 \% 37$
$t=203$		6	$\rightarrow 40 \% 37$ $= 3$

<u>A</u> , <u>B</u>	<u>1</u> , <u>7</u>
A, E	4, 12
B, E	7, 2
B, F	9, 10
<u>C</u> , <u>D</u>	<u>10</u> , <u>4</u>
A, F	2, 7
E, F	3, 7

$$v = \frac{\Delta f \times c}{f}$$

$$\Delta f = \frac{fv}{c}$$

=

$$ToF = \frac{\Delta f}{\text{slope}} =$$

$$\text{slope} = \frac{1 \text{ GHz}}{10 \text{ ms}} = 1 \times 10^8 \text{ Hz/ms}$$

$$\text{light @ } 3 \times 10^8 \text{ m/s}$$

$$12 \text{ m} \rightarrow 40 \times 10^{-9} \text{ s}$$

$$40 \times 10^{-9} \times \text{slope} =$$

10dB SNR

90%

÷ 2

45%

