This is for practice and is not scored for points

Suppose you have a new COVID-19 test which is reported to be 95% accurate. It will never miss a person who is infected, though it does have a 5% false positive rate.   What would happen if you used this new test to screen 1000 people?

Scenario 1: High Base Rate:
Assume that 40% of the population is COVID positive (COVID+)

Calculations: *For each result, also put it in the proper table cell below:*

Out of 1000 people, how many will have COVID?   _____

Of these COVID + how many will the test identify?   _____

Of the 1000 people, how many will be COVID negative (COVID-) ?   _____

Of these COVID-, how many will test positive?   _____

		The Real World		
		COVID+	**COVID-**	Totals:
Test Results	**COVID+**	*(true positives)*	*(false positives)*	
	COVID-	*(false negatives)*	*(true negative)*	
	Totals:			**1000**

Therefore, in this population, what % of the positive test results are true? (TP)/(TP+FP) =

Scenario 2: Low Base Rate:
Assume that only 2% of the population is COVID positive (COVID+)

Calculations: *For each result, also put it in the proper table cell below:*

Out of 1000 people, how many will have COVID?   _____

Of these COVID+ how many will the test identify?   _____

Of the 1000 people, how many will be COVID negative (COVID-) ?   _____

Of these COVID-, how many will test positive?   _____

		The Real World		
		COVID+	**COVID-**	Totals:
Test Results	**COVID+**	*(true positives)*	*(false positives)*	
	COVID-	*(false negatives)*	*(true negative)*	
	Totals:			**1000**

Therefore, in this population, what % of the positive test results are true? (TP)/(TP+FP) =