Mobile Sensors

Due Apr 22 at 11:59pm	Points 10	Questions 10	
Time Limit 30 Minutes			

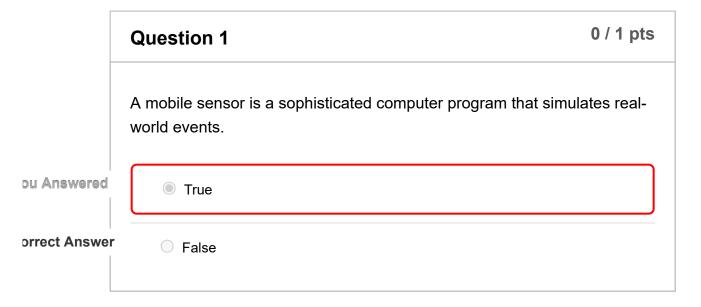
Instructions

Make sure you go over the <u>mobile sensor slides</u> <u>(https://drive.google.com/file/d/1xSFaUAPf9cr--k32-ytBDPY7bywGxerj/view?usp=sharing)</u> before taking this quiz.

Attempt History

LATEST <u>Attemp</u>	<u>t 1</u>	15 minutes	9 out of 10

Score for this quiz: **9** out of 10 Submitted Apr 16 at 3:40pm This attempt took 15 minutes.



Question 2 1/1 pts

What sensor determines whether your phone should be in portrait or landscape mode?

	magnetometer
	O barometer
	gyroscope
Correct!	accelerometer

What is the best sensor to use in a racing video game that uses your phone as a steering wheel? GPS proximity sensor accelerometer gyroscope

-	Question 4	1 / 1 pts
	Which of the following is NOT a property of a good sensor?	
	odoes not influence the measured property	
	sensitive only to the measured property	
Correct!	co-ordinates with other sensors	
	outputs a signal that is linearly proportional to the measured pro	perty

	Question 5	1 / 1 pts
	Drift in a sensor is typically corrected by:	
Correct!	calibration	
	signal processing	
	shaking your phone	
	updating the driver	

	Question 6	/ 1 pts
	These two sensors are typically located at the top of your phone ar save battery power by dimming or turning of the screen	nd help
	accelerometer and gyroscope	
	humidity sensor and ambient temperature sensor	
Correct!	proximity sensor and ambient light sensor	
	camera and microphone	

Question 7 1/1 pts Which sensor can be used to scan barcodes?

Correct!	magnetometer
	 accelerometer
	camera
	oproximity sensor
	proximity sensor

	Question 8	1 / 1 pts
	Which sensor can be used as a metal detector?	
	barometer	
	accelerometer	
	Geiger counter	
Correct!	magnetometer	

	Question 9	1 / 1 pts
	When your phone is at rest, the (up-down axis) accelerometer simeasure	hould
Correct!	9.8 m/s^2 upward acceleration	
	9.8 m/s^2 downward acceleration	
	0 acceleration	
	non-constant acceleration	

	Question 10	1 / 1 pts
	You can typically calculate your position accurately with data fro two GPS satellites.	om only
	○ True	
Correct!	False	

Quiz Score: 9 out of 10