QUIZ / Wheel Size Matters

NAME		DATE	CLASS PERIOD		
	Put a check \checkmark in the \Box next to the correct answer.				
	1. How does the modified Squarebot dif	fer from the origin	al Squarebot?		
	The modified Squarebot is I	oattery-powdered			
	The power setting for the m	The power setting for the modified Squarebot was increased			
	The gears for the front whee	The gears for the front wheels were removed on the modified Squarebot			
	□ The front wheels on the mo	dified Squarebot v	vere replaced by larger wheels		
	2. What is kept constant in this investig	ation??			
	□ Wheel size				
	Type of robot				
	The distance the robot trave	els			
	The speed the robot reache	S			
	3. Which variable is the dependent in th	is investigation?			
	The distance the robot trave	els			
	The speed the robot reache	S			
	□ Wheel size				
	□ Type of robot				
	4. What are systematic errors?				
	Errors that affect data				
	Errors that are caused by here	uman jugments			
	Errors that we are unable to	detect			
	Errors that always affect da	ta the same way			
	5. What are random errors?				
	Errors that always affect da	ta the same way			
	Errors that are caused by h	uman jugments			
	Errors that affect data differ	ent ways at differe	ent times		
	Errors that we are unable to	-			

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STUDENT QUIZ

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	6.	Which variable is the depende	ent in this investigation?	
		The distance the rol	oot ravles	
		The speed the robot	reaches	
		Wheel size		
		□ Type of robot		
	7.	Interpolation of data values m	eans predicting a new val	ue
		between existing va	lues	
		beyond existing value	les	
		☐ from a new data set		
		□ none of the above		
	8.	Extrapolation of data values n	neans predicting a new va	lue
		between existing value	lues	
		from a new data set		
		beyond existing value	Jes	
		□ none of the above		
	9.	calculate the average		
		□ 219.2 in.		
		□ 43.84 in.		
		□ 45.9 in.		
		□ 42.6 in.		
	10.	Convert 47.8 inches to centim	eters.	
		□ 121.4 cm		
		□ 188.1 cm		
		□ 12.1 cm		
		□ 18.8 cm		
	11.	Given the plot shown below (I diameter of 7 inches reach?	Figure 1), about what spee	ed would a wheel with a
		45 inches/second		
		55 inches/second		
		65 inches/second		

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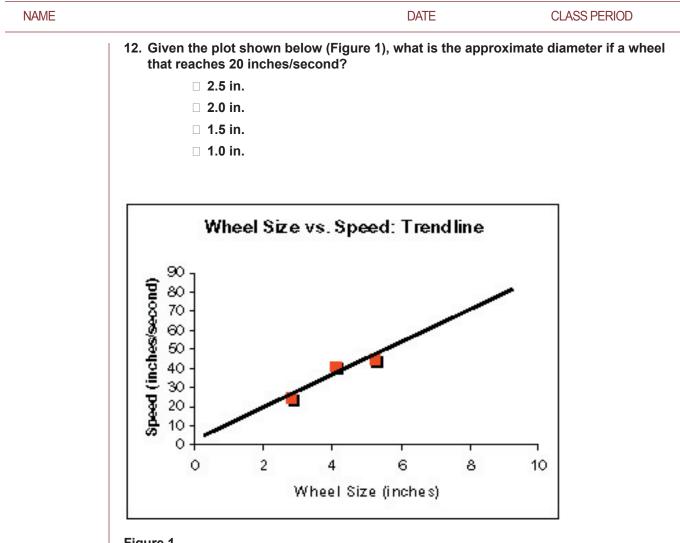


Figure 1