

Types of Variables Mystery Picture

Select the correct answer for each question from the options provided. The correct answer indicates a colour that you should use on the colouring page. The question number corresponds with the number on the colouring page. When you are finished, you will reveal a mystery picture!

	variable nange or select t		2. The variable is the variable that is measured.				
dependent red	independent blue	controlled green	controlled green	independent orange	dependent blue		

A student investigated how the number of bulbs in a series circuit affected the current. Use this information to answer questions three and four.

3. What is the	e independent v stigation?	ariable	4. What is the dependent variable in the investigation?				
number of bulbs yellow	amount of current light blue equipment used in the investigation red		number of bulbs yellow	amount of current light blue	equipment used in the investigation red		

A student investigated how the temperature in a greenhouse is affected by the material it is made from. Use this information to answer questions five and six.

5. What is the in the inves	e independent v stigation?	ariable		6. What is the dependent variable in the investigation?				
thermo- meter blue	temperature purple	material used orange	thermo- meter blue	temperature purple	material used orange neasure the growth we can measure the mber of leaves. In this the height of the plant variable.			
of water: 5 when testing amounts ogrowth. In	e the following of the following of the effect that for the effect that for the experiment this experiment the contractions.	d 200mL at different plant water	8. In order to measure the growth of the plant, we can measure the height or number of leaves. In this experiment, the height of the plant is the variable.					
dependent blue	independent red	controlled green	dependent green	independent red	controlled blue			



the experinexample, the amount of and amount that the plate	other factors that ment in question he type of plant sunlight receive nt of soil, the ten ants are expose pots used. The he	n eight. For used, the ed, the type mperature d to and even se factors are	<u>speed</u> of a mass. The	nvestigated hov ball is affected underlined vari	by its
dependent brownindependent redcontrolled pink			independent variable pink	dependent variable brown	controlled variable red
speed of a <u>mass.</u> The i	nvestigated hov ball is affected underlined varia	by its	it takes for is affected	nvestigated who a chemical read by the volume of independent v	ction to finish of a reactant.
independent variable purple	variable variable variable		stopwatch pink	volume brown	rate of reaction red

Jake and Zeynab wanted to find out which pen performs best. They decided to conduct a test by examining various pens to determine which type writes the longest before running out of ink. Zeynab selected a ballpoint pen while Jake chose a fountain pen. They utilised their respective pens for writing at school starting Monday morning and by Thursday, Jake's pen had run out of ink. Their assessment led them to the conclusion that ballpoint pens perform better.

Use this information to answer questions thirteen to fifteen.

	he independen the experiment		14. What was the dependent variable in the experiment? the type the time it takes to run the peop				
the type of pen brown	the time it takes to run out of ink pink	the people red	the type of pen red	the time it takes to run out of ink green	the people pink		
that ballpo	nd Zeynab say v int pens are alw er than fountai	vays going					
yes red	no brown	somewhat blue					



10	13	12	15	13	10	10	13	15	10	15	12	13	10	12
13	10	13	7	15	15	10	15	13	15	1	2	2	15	10
15	10	7	7	7	13	15	10	13	10	1	3	1	10	13
13	7	7	5	7	7	10	13	15	13	2	1	2	13	15
10	15	7	7	7	10	12	13	10	15	13	14	10	15	10
13	10	13	7	15	13	15	12	13	15	10	8	15	8	13
15	8	15	8	10	12	15	10	13	8	13	14	14	10	15
10	13	14	8	13	4	2	4	15	13	14	8	13	15	10
10	15	13	8	15	1	3	2	10	15	10	8	5	13	5
13	15	10	14	10	4	1	4	6	13	15	8	5	7	5
7	9	7	8	13	10	14	15	11	6	11	6	5	5	5
9	5	9	14	15	10	8	15	6	3	11	8	10	14	13
7	9	7	14	10	15	8	6	11	6	11	14	13	8	8
8	14	10	8	13	8	14	10	13	8	11	8	15	8	15
13	14	15	8	15	13	8	10	8	8	13	8	10	8	10
14	8	8	14	8	14	14	8	14	14	14	8	14	14	14