Blood pressure validation marking key

1. What was the independent variable in this latest investigation? (1 mark)

Activity

1. What was the dependent variable in this latest investigation? (1 mark)

**Blood pressure**

1. State two controlled variables for this latest investigation? ( 2mark)

**No injuries, Same gradient of stairs, No stimulents etc**

2. For this investigation what is the independent variable?( 1mark)

**New drug**

1. What is the dependent variable? (1 mark)

**time taken for the body to recover from the flu Strain 24/B**

1. State a possible hypothesis for this investigation. ( 2 marks)

**The new drug will shorten the time taken for the body to recover from the flu strain 24/b**

2. Which result would be an outlier? (1 mark)

**80cm**

1. What was the dependent variable for this experiment? (1 mark)

**Rebound height**

1. State two controlled variable for this experiment stated in the question.

(2 marks)

**Ball dropped from a height of 1m onto a concrete surface. The rebound height was measured using a ruler**

1. Draw a suitable table of results for this data.

(5 marks)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Rebound Height (cm) | | | | |
|  | Trail 1 | Trial 2 | Trial 3 | Total | Average |
| Ball Brand |  |  |  |  |  |
| ***Balls-A-Go-Go*** | 3 | 5 | 4 | 12 | 4 |
| ***Bigred*** | 6 | 5 | 7 | 18 | 6 |
| ***Happy Balls*** | 10 | 11 | 9 | 30 | 10 |

1. Graph: bar, heading, brand on horizontal axis. Axis labelled, units given in brackets given, bars not touching.= 6 marks

6.

|  |  |  |  |
| --- | --- | --- | --- |
| Number | Mark |  | Mark |
| First is **systole** | 1 | Pressure caused by heart contractions | 1 |
| Second is **diastole** | 1 | Pressure caused by elastic walls of arteries springing back. | 1 |

## Why could Baroreceptors of the aortic arch be described as biological Sphygmomanometers?

## They measure blood pressure

## What are the units of measure for blood pressure?

## mmHg

## What division of the autonomic nervous system would cause the change seen in blood pressure during the experiment that you ran?

**Sympathetic**