

Healthy tomato plants – Student work samples

Link to the assessment resource, *Healthy tomato plants* (ST8105)

These examples are generally listed from the most sophisticated to the least sophisticated.

Names all three variables appropriately and succinctly and records all data correctly.

At Level 4

Person	Number of leaves	i) Number of Tomatoes	ii) the colour of the plants	iii) the measurements of the plants
Ally	12	iv) 8	vi) a wonderful green (dark)	viii) really short
Jack	5	v) 3	vii) a ill looking Green	ix) really tall

Longer but appropriate labels and data entries.

Person	Number of leaves	i) Number of tomatoes	ii) height	iii) colour
Ally	12	iv) 8	vi) 63 cm	viii) dark green
Jack	5	v) 3	vii) 91 cm	ix) yellow/green

Labels appropriate and succinct. "Height" and "Colour" would be better "Height of plant" and "Colour of leaves". Excellent data entry.

Names all three variables appropriately and all data correctly but is not succinct.

Early Level 4

Person	Number of leaves	i) Height	ii) Number of Tomatoes	iii) Which one is more greener
Ally	12	iv) Ally's is more green ^{shorter} more in size	vi) 8	viii) Ally's one is greener
Jack	5	v) Jack's is small heighter in size	vii) 3	ix) Jack one not that green

Names all variables appropriately and records most data correctly.

Early Level 4

Person	Number of leaves	i) The number of tomato	ii) how tall	iii) colour of The plant
Ally	12	iv) 8	vi) 6.3cm	viii) dark green
Jack	5	v) 3	vii) 9.1cm	ix) light green

Excellent labelling of two of the variables. "How tall" acceptable, but "Height of plant" better. Measurement error in height – the student does not take account of the scale of the diagram.

Person	Number of leaves	i) Number of Tomatoes	ii) height of stalk	iii) Measurement of the Biggest leaf
Ally	12	iv) 8	vi) 7.3cm	viii) 2.4
Jack	5	v) 3	vii) 10.3cm	ix) 2.6

Excellent labelling of two of the variables, with the third too verbose. Measurement errors – the student does not take account of the scale of the diagram.

Measurement offset errors. The students starts measuring from 1cm rather than from 0cm

Creates dichotomies for variables in the table. Early Level 4

Person	Number of leaves	i) Number of Tomatoes	ii) The greenest leaves	iii) The Tallest and Shortest
Ally	12	iv) 8	vi) ✓	viii) Ally's The shortest but healthy
Jack	5	v) 3	vii) x	ix) x

Makes the last two labels so that "Yes"/"No" or "✓"/"x" are answers. This limits other more nuanced responses.

Person	Number of leaves	i) How many tomatoes	ii) dark red or light red	iii) dark leaves or light leaves
Ally	12	iv) 8	vi) dark	viii) dark
Jack	5	v) 3	vii) light	ix) light

Turns "colour" into a dichotomy of light/dark restricting the range of responses. The tomatoes on the two plants are approximately equal in "redness".

Some inappropriate variables or labels or errors in recording. Below Level 4

Person	Number of leaves	i) Ally's got more leaves	ii) It shows the number of tomatoes	iii) Ally's plant is more healthy
Ally	12	iv) hers is healthy and just right	vi) 8	viii) nice and healthy - great tomatoes
Jack	5	v) his it not that good like Ally's	vii) 3	ix) he can do much better

Heading for tomatoes correct but too verbose.

The heading about leaves is acceptable, but the data recorded under it are not specific enough.

The heading about plant health is too general, including several variables. The data recorded under also of a general nature rather than about a specific variable.