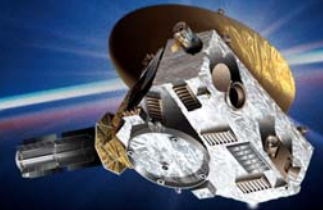


NEW HORIZONS

To Pluto and Beyond

<http://pluto.jhuapl.edu>



GROWING UP WITH A MISSION STUDENT ACTIVITY SHEET

Directions:

1. Stand with your back against the New Horizons growth chart poster and have your partner measure how tall you are in ____ (centimeters or inches). Round to the nearest whole number.

My Height _____

2. Record your name and height on the chart your teacher wrote on the chalkboard.
3. Copy the data on the chalkboard chart onto Table 1, *in order of increasing height, from shortest to tallest.*
4. Answer the questions next to Table 1.

Definitions

Median – the middle value when all numbers are in increasing order

Ex. 1, 3, 4, 4, 4, 5, 6, 6, 7, 10, 11
The median is 5.

Mode – the most frequently occurring number

Ex. 1, 3, 4, 4, 4, 5, 6, 6, 7, 10, 11
The mode is 4.

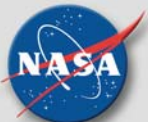
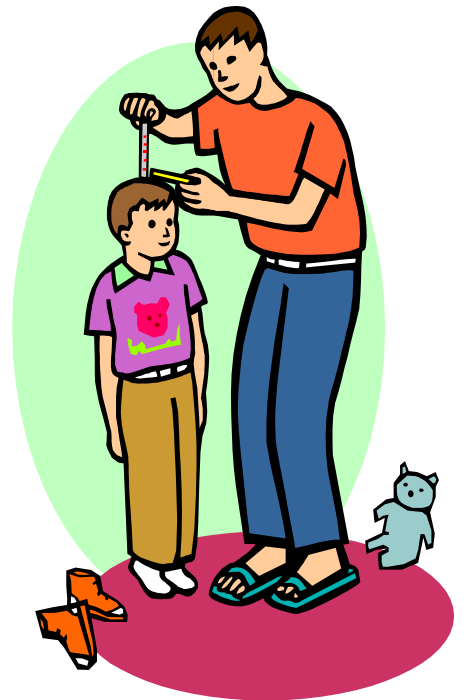
Mean – the average. Find the mean by adding all the values and dividing by the number of values.

Ex. 1, 3, 4, 4, 4, 5, 6, 6, 7, 10, 11

To find the mean:

Step 1: $1+3+4+4+4+5+6+6+7+10+11 = 61$

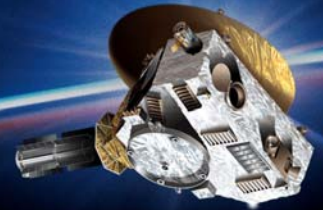
Step 2: $61 \div 11 = 5.5 \leftarrow$ the mean



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GIRLS: Get a copy of the U.S. Growth Chart for Girls.

BOYS: Get a copy of the U.S. Growth Chart for Boys

Determine Your Age
Age in Years: _____

If you will celebrate your birthday in the next...
3 months...add $\frac{3}{4}$ to your age
3-6 months...add $\frac{1}{2}$ to your age
6-9 months...add $\frac{1}{4}$ to your age

U.S. Growth Chart Age: _____
(age + fraction)

How old will you be when New Horizons flies past Pluto?

_____ + _____ = _____
U.S. Growth Chart Age Years Until Pluto Flyby Age at Pluto Flyby

Mark an "X" on the U.S. Growth Chart at the point with your U.S. Growth Chart Age and your Height.

On the U.S. Growth Chart, find the curve closest to the "X."
Trace this curve until you are at your Age at Pluto Flyby or at 20 years old. Mark an "X" here.

How tall will you be when New Horizons flies past Pluto?

Look at the New Horizons growth chart poster to see how tall you might be!

