

# Birthday Calculations:

How old are you on the planet Mercury?

Let's organize some numbers for our Birthday calculations:

How old are you? (In earth years)

I am 10 years old



Earth

How many days are there in a year on earth?

There are 365 days in one earth year

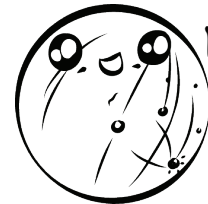
How old are you in earth days?

$$\begin{array}{r} 365 \\ \times 10 \\ \hline 000 \\ + 3,650 \\ \hline 3,650 \end{array}$$

I am  
3,650 days old

How old would you be on the planet mercury?

Use the chart to help you solve the problem (Only solve to the tenths place)



Mercury

Time to orbit the sun

Mercury	88 days
Venus	225 days
Earth	365 days
Mars	687 days
Jupiter	4,332 days
saturn	10,785 days
Uranus	30,688 days
Neptune	60,182 days
Pluto	90,520 days

$$\begin{array}{r} 41.5 \\ 88 \overline{) 3650.0} \\ \underline{- 352} \phantom{0} \\ 0130 \\ \underline{- 88} \\ 042 \end{array}$$

I would be  
41.5 years old

042 *Remainder a little bit*

Let's set up this math problem for coding by naming our numbers.

My age on this planet = (My Age (Earth Years)) \* (365 Days in a Year) / (Planet Orbit Days)

The computer will solve for this

10 yrs

What number goes with this name?

365 days

What number goes with this name?

88 days

What number goes with this name?