

Mathematics Problem of the Week (253)

This week's winner is:

Brady Schmidt

Contact Lin Hammill (Surrey Fir 348) or Judy Bicep (Richmond,3335) for your prize or email MathProblem@kpu.ca.

Also submitting correct solutions to problem 253 were:

Victor Blancard, Matt Potma, Harprit Rajpal, Trevor Dorflinger, Tom Ouellette, Alex Au Jeong, Jesse Meyer, Anthony Roberts, David Luna, and Suzanne Pearce

Problem 253 solution:

Let L represent the length of her life.

Then the table represents where she lived:

Where:	India	USA	Egypt	Germany	Canada
How long:	L/3	L/6	12		L/6

Since the time in Germany is $\frac{1}{2}$ of the time in Canada and Germany combined, she spent L/6 in Germany.

So we have $\frac{L}{3} + \frac{L}{6} + 12 + \frac{L}{6} + \frac{L}{6} = L$

$$\frac{5L}{6} + 12 = L$$

$$L = 72$$

Then she spent 24 years in India and 12 years in the USA. She was 36 when she moved to Egypt and she spent 12 years there so she was in Egypt when she turned 40.

