

How Long Will You Be Here?

Getting warmed up...

Solve for the variable.

a.) $12 + y = 52$ $y = \underline{\hspace{2cm}}$

b.) $x - 27 = 93$ $x = \underline{\hspace{2cm}}$



The 2004 Almanac reported the following data about a person's life expectancy. Use the information to write and solve the equations.

- 1.) In 1990, the life expectancy of males and females was 47.3 years but in 2000, the life expectancy of males and females had increased to 76.9 years. How much had it increased?

Equation: $47.3 + y = 76.9$

Solve. $y = \underline{\hspace{2cm}}$

- 2.) In 1990, the life expectancy for females of all races was 78.8 years, but for males it was 71.8 years. How many years less was the male life expectancy?

Equation: $78.8 - y = 71.8$

Solve. $y = \underline{\hspace{2cm}}$

3.) The life expectancy of African American males was 68.6 years in 2001, while African American females were expected to live 75.5 years. What was the increase from males to females?

a.) Write an equation to express this situation.

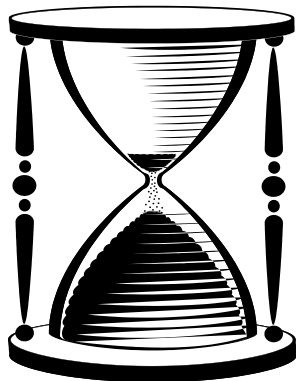
b.) Solve the equation. _____

4.) The life expectancy of Caucasian females was 80.2 years in 2001 while Caucasian males were expected to live 75.0 years. What was the decrease between Caucasian females and males?

a.) Write an equation to express this situation.

b.) Solve the equation. _____

5.) Use the data in questions 1-4 to determine which group of people had the highest life expectancy.



How I figured this out . . .

1.)

2.)

3.)

4.)

How Long Will You Be Here – Objective: Generate and solve equations using addition and subtraction. [NCTM Algebra Standard for Grades 6-8]