

#5: The 5D Process

Example

Jim's age is two times David's age, and David is eight years older than Krissy. The sum of their ages is 76. How old is Jim?

① Draw:


$$\text{David} + \text{Jim} + \text{Krissy} = 76 \text{ years}$$

David Jim Krissy

② Define: Krissy: x
David: $x+8$
Jim: $2(x+8)$

③ Do:

Krissy	David	Jim	Sum of ages	76?
x	$x+8$	$2x+16$	* $x+x+8+2x+16 =$	76
⑬	$13+8 =$ ⑳	$2(13)+16$ ④②	$13+21+42 =$	76 ✓

$$x$$

$$x+8$$

$$2x+16$$

$$* x+x+8+2x+16 = 76$$

④ Decide: ⑬

$$13+8 = 21$$

$$2(13)+16$$

$$42$$

$$* 4x + 24 = 76$$

$$-24 \quad -24$$

$$4x = 52$$

$$\frac{4}{4} \quad \frac{52}{4}$$

$$x = 13$$

⑤* Declare: Jim is 42 years old.

* When you skip the chart you must still do:

- Define a variable
- Write an equation
- Solve
- Declare