Answer Key

HW #\_\_\_\_\_

3. **(3)** 

- 1. **(2)** 2. **(4)**
- 4. x: 1<sup>st</sup> integer {-34 and -33} x + 1: 2<sup>nd</sup> integer
  - x + (x + 1) = -67 2x + 1 = -67 2x = -68x = -34
- 6. **x**:  $1^{st}$  integer {22, 24} **x** + 2:  $2^{nd}$  integer 2x - 20 = x + 2 x - 20 = 2x = 22
- 7. Yes

Sally:

Jerry:

	1 <sup>st</sup> integer (13) 2 <sup>nd</sup> integer (14) 3 <sup>rd</sup> integer (15)	n - 4:	1 <sup>st</sup> integer (18 - 5 = 13) 2 <sup>nd</sup> integer (18 - 4 = 14) 3 <sup>rd</sup> integer (18 - 3 = 15)
n + (n + 1) + (n + 2) = 42		(n - 5) + (n - 4) + (n - 3) = 42	
3n + 3 = 42		3n - 12 = 42	
3n = 39		3n = 54	
n = 13		n = 18	
<b>{13, 14, 15}</b>		<b>{13, 14, 15}</b>	

They will get the same result as shown above. Sally and Jerry defined the unknowns differently but <u>represented the same relationship</u>.

5. **x**: 1<sup>st</sup> integer {10, 11, 12} **x** + 1: 2<sup>nd</sup> integer **x** + 2: 3<sup>rd</sup> integer x + (x + 1) + (x + 2) = 9 + 2(x + 2) 3x + 3 = 9 + 2x + 4 3x + 3 = 13 + 2x x + 3 = 13x = 10