

## Algebra 2

### Data Updates

#### Chapter 3

##### Lesson 3.2, page 154, Exercises 59–61, Swimming

Years since 1968, $x$	0	4	8	12	16	20	24	28	32
Men's time (sec), $m$	52.2	51.2	50.0	50.4	49.8	48.6	49.0	48.7	48.3
Women's time (sec), $w$	60.0	58.6	55.7	54.8	55.9	54.9	54.6	54.5	53.8

Answers:

59. Add data to scatter plots.

60.  $m = -0.112x + 51.593$ ;  $w = -0.163x + 58.480$

61. (134.4, 36.5); about 136 years after 1968, in the 2104 Olympics, the men's and women's times in the 100 m freestyle will both be about 36.5 sec.

##### Lesson 3.3, page 161, Exercise 57, Weightlifting Records

Men's +105 kg World Weightlifting Records		
Snatch	Clean & Jerk	Combined
212.5 kg	262.5 kg (unchanged)	472.5 kg

Answer:

$$s > 212.5$$

$$j > 262.5$$

$$s + j \leq 472.5$$

