

10. For 2009, the WNBA's top scorer was Cappie Pondexter of the Phoenix Mercury. She scored a total of 648 points during the regular season. The number of two-point field goals that Pondexter made was 22 fewer than five times the number of three-point field goals she made. The number of free throws (each worth one point) she made was 60 fewer than the number of two-point field goals she made. Find how many two-point field goals, three-point field goals, and free throws Cappie Pondexter made during the 2009 regular season.

$$A = 1 \text{ pt} \quad B = 2 \text{ pts} \quad C = 3 \text{ pt}$$

$$B = 5C - 22$$

$$A = B - 60$$

$$A = 5C - 22 - 60$$

$$A = 5C - 82$$

648 total points

$$5x - 22 - 60 + 2(5x - 22) + 3x = 648$$

$$5x - 22 - 60 + 10x - 44 + 3x = 648$$

$$18x - 22 - 60 - 44 = 648$$

$$18x - 126 = 648$$

$$+126 \quad +126$$

$$18x = 774$$

$$x = 43$$

$$\frac{18}{18} \frac{774}{18}$$

$$\begin{array}{l} A - 133 \\ B - 386 \\ C - 129 \end{array}$$

Yay

X  
1st number

y  
2nd number

$$2x = 3y + 4 \quad -8(2x - 3y = 4)$$

$$7x - 2 = 8y + 1 \quad 3(7x - 8y = 3)$$

$$7\left(-\frac{23}{5}\right) - 2 = 8y + 1$$

$$-\frac{161}{5} - 3 = 8y$$

$$-\frac{15}{5}$$

$$\frac{1}{8} - \frac{176}{5} = 8y \left(\frac{1}{8}\right)$$

$$y = -\frac{22}{5} \quad x = -\frac{23}{5}$$

$$-16x + 24y = -32$$

$$21x - 24y = 9$$

$$\hline 5x = -23$$

$$x = -\frac{23}{5}$$

**Lesson 7.6**

**Level A**

1. 20, 9
2. 66, 32
3. 78, 50
4. 12 quarters, 6 dimes
5. 4 \$20s, 19 \$5s
6. 32
7. 733
8. 39 years, 16 years
9. 13 years, 8 years
10. 63 years, 19 years
11. 99
12. Vicky: 36 years, Pam: 31 years
13. Leo: 49 years, Adam: 11 years