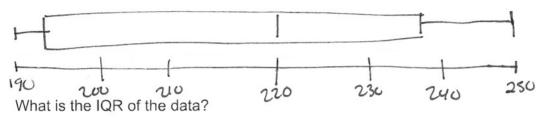
# Unit 9 Study Guide: CC2 Ch 8 & CC3 Ch 9.1

#### Box & Whisker Plot

The following are the weights of football players:-220,-225, 190,-193, 194, 250, 235,

240,<del>200.</del> 193.5 190, 193, 194, 200, 220, 225, 235, 240, 250

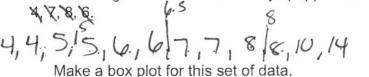
Make a box plot for this set of data.



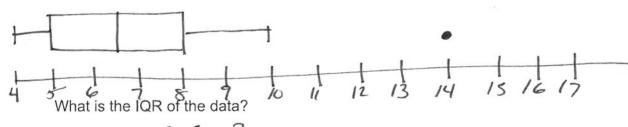
What percent of players weigh inside the IQR?

50%

The following are the number of days poppies take to germinate: 5, x, 14, 10, 6, & 4, 5,



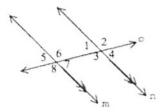
IGR x1.5=4.5



What percent of poppies take longer than the Q3 to sprout?

25%

## Types of Angles



angles. (congruent)

21 & 27 are At. interior angles. (congruent)

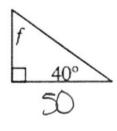
22 & 28 are At. exterior angles. (congruent)

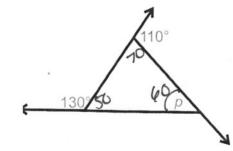
23 & 24 are Supplementary angles. (congruent)

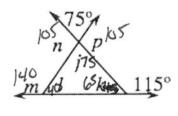
21 & 24 are Vertical angles. (congruent)

21 & 25 are Corresponding angles. (congruent)

## Finding Angle Measures

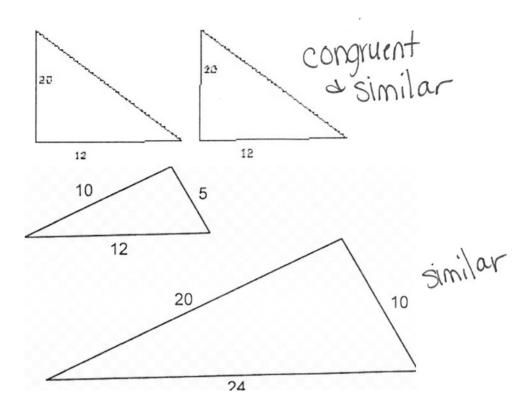






### Congruent & Similar Figures

Congruent, Similar, or Neither?



#### Review

Burt's chickens lay 40% fewer eggs than Berry's chickens. If Berry's chickens lay 50 eggs per week, how many do Burt's lay?

Sam bought a jacket, which was 1/4 off the original price. If Sam paid \$18.75, what was the original price?

Becky buys a pair of shoes that are 40% off the original price. If he paid \$15, what was the original price? .6X=15

My chickens ate 40% of a 25lb of chicken feed last month. Last month, they ate 70% of the remaining chicken feed. How much is left now?

What is the slope of a line that goes through (-3, 2) and (6, 4)? 
$$\frac{2-4}{-3+6} = \frac{-2}{-9} = \frac{2}{9}$$

What is the slope of a line that goes through (0, 4) and (3, -2)?

$$\frac{4--3}{0-3} = \frac{6}{-3} = -2$$

What is the slope of a line that goes through (5, 4) and (6, 2)?

$$\frac{4-2}{5-6} = \frac{2}{-1} = -2$$

What is the slope of a line that goes through (2, 5) and (3, -2)?

$$\frac{5--2}{2-3} = \frac{7}{-1} = \frac{7}{2}$$

Simplify: 
$$x^2y^6 \cdot x^3y^{-2}$$

Simplify: 
$$a^6b^9 \cdot a^2b^5$$

Simplify: 
$$a^3b^7 \cdot a^0b^{-3}$$

$$a^3b^4$$

Simplify 
$$(x^4y^6z^9)^3$$

$$x-2(3x-4) = x+2-6$$
  
 $x-6x+8 = x-4$   
 $-5x+8 = x-4$   
 $+5x+4+5x+4$   
 $12 = 6x$ 

$$0 \left(\frac{2x}{6} + \frac{2x}{4} + 3 = -1\right) \left(\frac{3x}{5} + \frac{2x}{4} + 2 = 6\right) 20$$

$$0 \left(\frac{1}{3}x + \frac{1}{2}x + 3 = -1\right) \left(\frac{3x}{5} + \frac{2x}{4} + 2 = 6\right) 20$$

$$0 \left(\frac{1}{3}x + \frac{1}{2}x + 3 = -1\right) \left(\frac{3x}{5} + \frac{2x}{4} + 2 = 6\right) 20$$

$$2 \times +3 \times +18 = -6$$

$$5 \times +18 = -6$$

$$5 \times -18 -18$$

$$5 \times = -24$$
simplify  $3(2 + 1) \div 3(3) - 3^{2}$ 

simplify 
$$3(2 + 1) \div 3(3) - 3^2$$

$$9 \div 3 \cdot 3 - 9$$
A/S  $9 - 9$ 

Simplify 
$$(x^3y^4z^6)^7$$

Simplify 
$$(x^3y^2z^5)^0$$

$$x - (x + 2) = x + 3 - 7$$

$$x-x-2=x-4$$
 $-2=x-4$ 
 $+y$ 
 $(2=x)$ 

$$\left(\frac{3x}{5} + \frac{2x}{4} + 2 = 6\right)$$
 26

$$\frac{60x}{5} + \frac{40n}{4} + 40 = 120$$

Simplify 
$$-2^3 + 5 \div 2(-2)$$

$$M/D - 8 + 2.5 - 2$$

$$\left(-13\right)$$

$$22 \times = 80$$
 $22$ 
 $X = 80 = 40$