

A company makes yellow golf balls and white golf balls. The table shows the company's sales of yellow golf balls for the last 3 years.

**Yellow Golf Balls**

Year	Number of Yellow Golf Balls Sold
1	204,132
2	225,624
3	237,108

- The company expects sales of yellow golf balls to continue to increase in year 4.
- The company also expects the ratio of yellow golf ball sales to white golf ball sales in year 4 to be about 1 : 5 .
- The average selling price of a box of 12 yellow or 12 white golf balls is \$23.94.

Estimate the company's total sales, in dollars, of golf balls in year 4. Show all your work. Explain how you determined your estimate.

Enter your estimate, your work, and your explanation in the space provided.

# Questions on your homework

# Module 10

## Lesson 2

I will be able to write and solve one step equations using addition and subtraction!

$$3+x=7$$

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# Solving Equations

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- \* Want to ISOLATE the variable
- \* Use INVERSE OPERATIONS to get the variable by itself
- \* What you do to one side of the equal sign you MUST do to the other!!!



# Solve and Graph the solution:

1.  $9 = 2 + x$

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2.  $3.5 + y = 12.75$

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3.  $\frac{7}{8} = y + \frac{1}{4}$

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# Solve and graph the solution:

4.  $a - 5 = 9$

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5.  $4.6 = e - 3.2$

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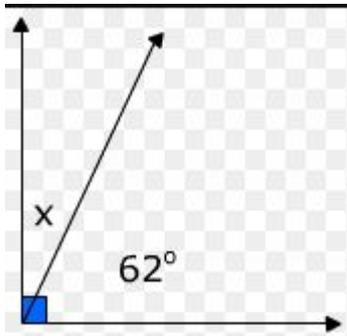
6.  $c - 1 = \frac{3}{4}$

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# Application of equations:

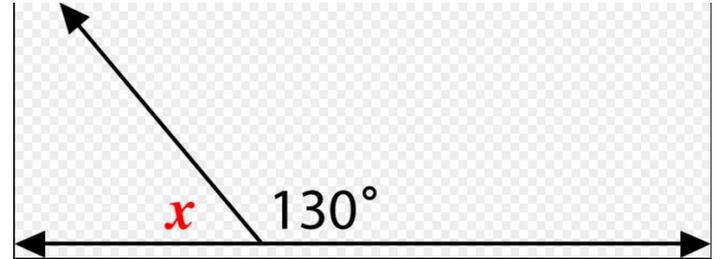
## Complementary Angles

Angles that add up to  $90^\circ$



## Supplementary Angles

Angles that add up to  $180^\circ$



# Practice:

Ellie spent \$88.79 at the computer store. She then had \$44.50 left to buy a cool hat. How much money did she have originally? Write and solve an equation to answer the question.

# Practice:

A wildlife reserve had 8 elephant calves born during the summer and now has 31 total elephants. Write an equation and solve it to determine how many elephants were in the reserve before summer began.

## PRACTICE:

Kim bought a poster that cost \$8.95 and some colored pencils. The total cost was \$21.35. How much did the colored pencils cost? Write and solve an equation.

## PRACTICE:

The charge for a microwave repair visit was \$81.21, including tax. If the tax was \$6.70, how much was the repair visit? Write and solve an equation.

## PRACTICE:

According to CBS, in 2010 the average cost of a Super bowl ticket was \$3,509. This is \$441 less than the cost of a 2015 ticket. How much was a ticket in 2015? Write and solve an equation.

# Quick Check of Lesson 1

Determine if the given value is a solution for the Equation

1.  $c + 21 = 31$ ,  $c = 18$

2.  $63 \div n = 9$ ,  $n = 7$

Write an equation to represent the situation

3. Penny bought 18 cookies, 5 of them were chocolate chip and  $m$  number were monster cookies. Write an equation to represent the situation.