

## ASTB Personal Study Guide

### **MATH SKILLS:**

- 16 ounces = 1 pound
- 8 pints = 1 gallon
- 4 quarts = 1 gallon
- 2000 lbs = 1 ton
- Shapes
  - $(\# \text{ of sides} - 2) * 180 = \text{Total \# of degrees}$
  - Supplemental angle - add up to 180 degrees
  - Complementary angle - add up to 90 degrees
- Words to Equations:
  - If 2 times  $r$  exceeds one-half of  $t$  by 5, which of the following represents the relationship between  $r$  and  $t$ .
    - $2r - .5t = 5$
    - or..  $4r - t = 10$
  - If 3 times  $x$  exceeds  $1/3$  of  $y$  by 9, which of the following is the equation that shows the relationship between  $x$  and  $y$ ?
    - $3x - 1/3 * y = 9$
    - or..  $9x - y = 27$
- Questions about how fast people can do a job together
  - Time actually needed / Time needed to do the job alone = 1
  - Ex. One recruiter can complete a certain assignment in 40 minutes; another can complete the same assignment in one hour. How long would it take to complete the assignment if they worked together?
    - $x/40 + x/60 = 1$ ,  $x=24$  minutes
- Question with an acid solution. Take the pure acid volume as  $X$ .
  - $P1 * V1 + P2 * V2 = P3 * V3$
  - $P1 * V1$  would be  $X * 1$
  - $P2 * V2$  is volume of first \* percentage of first
  - $P3 * V3 = (X + \text{volume of first solution}) * \text{volume of final}$
  - solve for  $X$
  - Example: How much pure acid must be added to 12 ounces of a 40% acid solution in order to produce a 60% acid solution?
    - $100x + 480 = 60(12+x)$ ,  $x=6$
- A can complete a project in 20 days and B can complete the same project in 30 days. If A and B start working on the project together and A quits 10 days before the project is completed, in how many days will the project be completed?
  - Explanatory Answer If A can do complete a project in 20 days, then A will complete  $1/20$  th of the project in a day. Similarly, B will complete  $1/30$  th of the project in a day. Let the total number of days taken to complete the project be  $x$  days. Then, B would have worked for all  $x$  days, while A would have worked for  $(x - 10)$  days. Therefore, A would have completed  $\frac{x-10}{20}$  th of the project and B would have complete  $\frac{x}{30}$  th of the project.  $\frac{x-10}{20} + \frac{x}{30} = 1$ ; Solving for  $x$ , we get  $x = 18$ .
- Questions about discount price
  - Amount of discount / Original price = % of reduction
  - reduction \* 100 = final answer %
- When you divide by a decimal, make it a whole number and move the dividend's decimal the same amount. Don't change the decimal in the final answer.
- A businesswoman spends  $1/5$  of her income for rent, and  $3/8$  of the remainder goes towards salary.

# Astb Personal Study Guide

**Siddappa N.Byrareddy**



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[oxidation reduction reactions worksheet chemistry libretexts](#) - Mar 10 2023

web in each of the following redox reactions indicate the elements that undergo changes in oxidation number and the magnitude of change then identify the element oxidized and reduced as well as the oxidizing agent and reducing agent  
 $2\text{O}_5$   
 $5\text{CO}$   $2\text{CO}_2$   $2\text{O}$   $5\text{CO}$   $2\text{CO}_2$

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web chemical reactions in which there is a transfer of electrons from one substance to another are known as oxidation reduction reactions or redox reactions in this unit you will examine the oxidation reduction process and use the oxidation state and oxidation number concepts to identify redox reactions and to keep track of electrons

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web jun 28 2010 answers i determine what is oxidized and what in each reaction identify the oxidizing agent and the reducing agent also  
 $2\text{Sr}$   $\text{O}_2$   $2\text{SrO}$   $\text{Sr}$   $0$  to  $\text{Sr}^{2+}$  oxidized reducing agent  $\text{O}$   $0$  to  $\text{O}^{2-}$  reduced ox ag  
 $2\text{Li}$   $\text{S}$   $\text{Li}_2\text{S}$   $\text{Li}$   $0$  to  $\text{Li}^{+}$  oxidized red ag  
 $\text{S}$   $0$  to  $\text{S}^{2-}$  reduced ox ag  
 $3\text{CS}$   $\text{Br}_2$