LINEAR APPLICATION NOTES

APPLICATION MEANS Word problems

STEPS TO SOLVE LINEAR APPLICATIONS

1. Underline **IMPORTANT INFORMATION**
2. Draw **A PICTURE**
3. Pick **A VARIABLE**
4. Write **THE EQUATION**
5. **SOLVE**

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EX #1: A sale at a local grocery store was offering all fruit at the same price per pound. Valencia bought 1.5 pounds of peaches and 3.5 pounds of plums. She used a 50 cents off coupon and ended up spending exactly $5.00. What was the price per pound for the fruit that Valencia bought?

x = $ per lb.

$1.5x + 3.5x - .5 = 5.00$

$5x - .5 = 5.00$

$+.5 \quad +.5$

$\frac{5x}{5} = \frac{5.50}{5}$

$x = \$1.10$ per lb.

EX #2: Rachael and Sabine belong to different local gyms. Rachael pays $35 per month and a one-time registration fee of $15. Sabine pays only $25 per month but had to pay a $75 registration fee. After how many months will Rachael and Sabine have spent the same amount on their gym memberships?

x – months

$x = 6$ months

R

$35x + 15 = 25x + 75$

S

$-25x \quad -25x$

$10x + 15 = 75$

$-15 \quad -15$

$\frac{10x}{10} = \frac{60}{10}$

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