## Algebra I Class Worksheet \#1 Unit 2 page 1

Complete the table for each input-output chart shown.

| 1. | 2. | 0. | 4. |  |
| :---: | :---: | :---: | :---: | :---: |
| Input | $\mathrm{x}+7=12$ | $\mathrm{x}-6=5$ | $7 \mathrm{x}=42$ | $\frac{\mathrm{x}}{3}=7$ |
| $\downarrow$ <br> Operation | subtract 7 <br> from <br> both sides | add 6 <br> to <br> both sides | divide <br> both sides <br> by 7 | multiply <br> both sides <br> by 3 |
| $\downarrow$ <br> Output |  |  |  |  |


| 5. | 6. | 7. | 8. |  |
| :---: | :---: | :---: | :---: | :---: |
| Input | $\mathrm{x}+8=12$ | $\mathrm{x}-4=6$ | $5 \mathrm{x}=45$ | $\frac{\mathrm{x}}{2}=4$ |
| $\downarrow$ <br> Operation <br> $\downarrow$ <br> Output |  |  |  |  |

Solve the following equations. Show your process neatly organized.
9. $\mathrm{x}+3=8$
10. $\mathrm{x}-6=2$
11. $7 \mathrm{x}=35$
12. $\frac{X}{4}=5$
13. $\mathrm{x}+32=78$
14. $\mathrm{x}-61=12$
15. $7 \mathrm{x}=154$
16. $\frac{X}{9}=27$

## Algebra I Class Worksheet \#1 Unit 2 page 2

Write an algebraic expression for each of the following. In each case, use x for 'the number'.
17. nine more than the number : $\qquad$
19. five times the number : $\qquad$
18. six less than the number : $\qquad$
20. the number divided by three : $\qquad$
Write an algebraic expression for each of the following. In each case, use d for Dave's age now.
21. Dave's age in five years : $\qquad$ 22. Dave's age nine years ago : $\qquad$
23. four times Dave's age : $\qquad$

