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Algebra 1st Quarter Review

Solve these equations. Use the algebra kits to help you. Each problem is worth 3 points. Show your thinking. You will not receive credit if you don’t show your thinking.

1. $3x+1=x+7$
2. $5x+2=2x+14$
3. $2x+x+x+2=2x+10$
4. $2x+x-x+1=x+9$
5. $2\left(2x+1\right)=18$
6. $5\*-2\*=\*+8$
7. $2x=\*+6$
8. $3\*+x+5=\*+12$
9. $2\left(-x\right)+\left(-x\right)=10+(-x)$
10. $2x+\left(-3\right)=5+x$
11. $6x+\left(-2\right)=2\left(-x\right)-10$
12. $5x+3=2x+15$
13. 2(-x+4)-(-5)=2x+5
14. 3x-(-x)+1=3(-x)+8

Translate the following words into algebra. Each one is worth 2 points.

1. Four less than a number x is sixty-four.
2. The sum of eight and a number is five less than seventy.
3. The sum of a number and five is thirteen.
4. Identify the following parts of the expression (1 point each):
* Coefficient
* Variable
* Constant
* At least one term

$$x3+2x-5x+4$$

Combine the like terms. They are worth 2 points each.

1. $16x^{2}+5x+8x+4x^{2}$

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1. $7xy+12x^{2}y+12xy+5x^{2}y$

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