Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Algebra 1 HW – Unit 2:2

**Show ALL work on the back or on another sheet of paper that is stapled to your homework.**

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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** |
| 1.Simplify: $√764$ | 1. Simplify: $√2912$ | 1. Simplify: $$-2\sqrt{6}+\left(-12√8\right)$$ | 1.Simplify: $$5\sqrt{38}-7\sqrt{2}-12√20$$ |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 2.Simplify: $$\left(32x^{2}+12\right)+(-7x^{2}-2)$$ | 2.Simplify: $$-y(10x+2)$$ | 2.Simplify: $$(x+7)(2x^{3}+7x)$$ | 2.Simplify: $\left(7n^{2}+4n\right)-(n^{3}-8n^{2}-4)$ |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 3.Describe in terms of accuracy and precision (high, low):**Object is 2.1**Data: 2.11m, 2.10m, 2.10m | 3.Describe in terms of accuracy and precision (high, low):**Object is 418g.**Data: 411g, 411.1g, 412g, 411.3g | 3.Describe in terms of accuracy and precision (high, low):**Object is 4 g/cm3**Data: 4.1, 4.01, 4.02, 3.98 | 3.Describe in terms of accuracy and precision (high, low):**Object is 39ºC**Data: 41, 42, 47, 50 |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 4.How many kilometers will a person run during a 20 mile race? | 4. A lake is 280,000 cubic feet. How many gallons is it? | 4. A car is 252 miles from its destination. How many kilometers is that? | 4. A building must be 325 feet tall. How many meters of steel do they need to build? |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 5.Solve: $-13x+3x=24$ | 5.Solve: $\frac{1}{8}x+9=-18$ | 5.Solve: $2x+7\left(x+1\right)>13$ | 5.Solve: $12+\left(2x+3\right)\leq 25$ |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 6.Solve: $3x-9x=15$ | 6.Solve: $31=31+\frac{1}{4}x$ | 6.Solve: $-14x+11x<24$ | 6.Solve:$$-13\left(2x-31\right)+5x>136$$ |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 7. Solve for x: $4x-y=15$ | 7.What is this algebraic property: (a+b)+c=a+(b+c) | 7.Solve: $19-3\left(x+4\right)\leq 7$ | 7.Is 36 a possible solution?$$3x+\frac{1}{3}x<27$$ |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 8. Solve for a: $ax-y=a$ | 8. What is this algebraic property: (ab)c = a(bc) | 8.Solve: $2\left(x-3\right)\geq 5$ | 8. Is 2.5 a possible solution?$$5-3x\leq 10$$ |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 9. Solve for b: $ab-ya=z$ | 9. What is this algebraic property: (a)(0) = 0 = (0)(a) | 9.Solve: $x+5x-17=121$ | 9. Is 11.2 a possible solution?$$4\left(1-x\right)+3x\leq -2(x+1)$$ |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 10. Solve for m: $y=mx+b$ | 10. What is this algebraic property: If a=b, then a +c = b+c | 10.Solve: $3x-7+x=155$ | 10. Is -18 a possible solution?$$\frac{1}{4}\left(12x+16\right)\leq 10-3(c-2)$$ |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 11. Solve for z: $zx-zb=x$ | 11. What is this algebraic property: If a=b, then ac=bc | 11.Solve: $-2<\frac{2x}{3}-x$ | 11.What is this algebraic property? -13 + 0 = -13 |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 12. Solve for y: $ay=nx$ | 12. What is this algebraic property: (2+3)+4=2+(3+4) | 12.Solve: $-10>\frac{1}{2}x+x$ | 12.What is this algebraic property? 3(x+1) = 3x + 3 |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 13. Solve for m: $yt+mt=t$ | 13. What is this algebraic property: If a<b and c>0, then ac < bc | 13.Solve: $3\left(x-2\right)\leq 18$ | 13.What is this algebraic property? If ab = 0, then a=0 or b=0 |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 14. Solve for x: $xy=\frac{n}{r}$ | 14. What is this algebraic property: if a>b, and b>c, then a>c | 14.Solve:$$55x-3\left(9x+12\right)\geq -64$$ | 14.What is this algebraic property? If a=b, then b=a |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |
| 15. Solve for t: $nt-nr=z$ | 15. What is this algebraic property: 3 + (-3) = 0 | 15.Solve: $\frac{9}{2}\left(x+3\right)\geq 27$ | 15.Solve for n:$$T=n+\left(n-1\right)d$$ |
| **Answer:** | **Answer:** | **Answer:** | **Answer:** |

**My Work**

**Answer Key**