Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_ Core:\_\_\_\_\_

Verbal Expressions: Equations with Variables on Both Sides

*Solve each word problem by assigning a value for x and writing your own equations.*

|  |  |  |
| --- | --- | --- |
| Word Problem: | Equation | Check: |
| 4 times a number increased by 4 is the same thing as two times the sum of the same number and 6. What is the number?  Variable= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |
| Johnny bought 4 t-shirts for the same price and a tie for $8. James bought one of the same t-shirts and spent $14 on a pair of socks. If they each spent the same amount of money, how much did each t-shirt cost?  Variable= ­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |

*Define a variable, set-up an equation, and solve for the unknown value in each word problem.*

|  |  |  |
| --- | --- | --- |
| Word Problem: | Equation | Check: |
| Laura can purchase 10 notebooks and a $7 pack of pens for the same price as 8 notebooks, a $5 pack of pens, and a $10 backpack. How much does each notebook cost?  Variable= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |
| Harold works at the BigEats Restaurant. Last weekend, he worked 6 hours and earned $22 in tips. This weekend, he worked 8 hours, but only earned $10 in tips. If he earned the same amount each weekend, how much did he earn per hour?  Variable = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |  |

Educational Source: Henry Borenson, Ed.D. The Hands-On Equations Learning System. Pennsylvania: Berenson and Associates, Inc., 2008. Print.

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