Lesson 3.8 - Using Algebraic Expressions to Represent an Equation

| Class Notes – Transfate each sentence into an | |
|---|---|
| LP#1 | If 7 is subtracted from 6 times a number, the |
| If 3 times a number is added to 4, the result | result is -25. Find the number. |
| is 19 Find the number | |
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| LP#2 | The sum of 8 and 5 times a number is 53. |
| If four times a number is decreased by 2, the | Find the number |
| result is 26. Find the number | i ind the number. |
| result is 20. Trind the number. | |
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Class Notes – Translate each sentence into an equation and solve.

| LP#3 | Heather had put some money aside in a an |
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| Some people got on an empty bus at its first | envelope for household expenses. Yesterday |
| stop. At the second stop, 3 people got on. | she took out \$20 for groceries. Today a |
| At the third stop 5 more people got on. At | friend paid back a loan and Heather put the |
| the fourth stop, 10 people got off, but 4 | \$34 in the envelope. Now she had \$43 in the |
| people were still on the bus. How many | envelope. How much was in the envelope at |
| people got on at the first stop? | the start? |
| LP#4 Three friends each put in the same amount of money to buy a gift. After they spent \$2 for a card and \$31 for the gift, they had \$6 left. How much money had each friend put in originally? | Michael had completed 5 less than three times as many lab experiments as David. If Michael has completed 13 experiments, how many experiments has David completed? |

| R#1 | If a number is subtracted from three times the |
|--|--|
| If a number is added to twice the number, the | number, the result is -8. What is the number? |
| result is -15 What is the number? | |
| result is i.e. while is the number. | |
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| B#2 | Disando gained 15 nounds over the winter He |
| K #2 | Ricardo gamed 15 pounds over the winter. He |
| If the product of some number and 5 is | went on a diet and lost 28 pounds. Then he |
| increased by 12, the result is seven times the | regained 5 pounds and weighed 177 pounds. |
| number. Find the number. | How much did he weigh originally? |
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| R#3 | There were 18 cookies in Magan's cookie jar |
| Mr. Chee deposited \$80 into his checking | While she was busy in another room, her |
| with the deposited \$60 mit ins checking | children ata some of the cooling. Magan |
| account. Then, and writing a \$25 check for | children ale some of the cookies. Magan |
| gas and a \$90 check for his child's day care, | bought three dozen cookies and added them to |
| the balance in his account was \$67. How | the jar. At that point she had 49 cookies in the |
| much was in his account before he made the | jar. How many cookies did her children eat? |
| deposit? | |
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Review – Solve each first-degree equation and check. If you do not solve an equation, explain.