Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 1, Equations 1-4**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + X = 4 + X**  1) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + X + X + 2 = 7 + 7**  2) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **X + X = 4 + X** |  | **Check to make sure “X” is correct:**  **X + X + X + 2 = 7 + 7** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + X + 4 = X + 10**  3) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + X + X = X + 10 + 2**  4) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **X + X + 4 = X + 10** |  | **Check to make sure “X” is correct:**  **X + X + X = X + 10 + 2** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 1, Equations 5-8**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + X = 9 + X**  5) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + X + X + 1 = 10 + 6**  6) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **X + X = 9 + X** |  | **Check to make sure “X” is correct:**  **X + X + X + 1 = 10 + 6** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + X + 5 = X + 8**  7) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + X + X = X + 9 + 7**  8) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **X + X + 5 = X + 8** |  | **Check to make sure “X” is correct:**  **X + X + X = X + 9 + 7** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 2, Equations 1-4**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2X = X + 3**  1) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **3X = X + 4**  2) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **2X = X + 3** |  | **Check to make sure “X” is correct:**  **3X = X + 4** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 4 = 2X + 3**  3) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **4X = 2X + 6**  4) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **X + 4 = 2X + 3** |  | **Check to make sure “X” is correct:**  **4X = 2X + 6** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 2, Equations 5-8**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2X = X + 7**  5) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **3X = X + 10**  6) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **2X = X + 7** |  | **Check to make sure “X” is correct:**  **3X = X + 10** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 7 = 2X + 3**  7) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **4X = 2X + 18**  8) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **X + 7 = 2X + 3** |  | **Check to make sure “X” is correct:**  **4X = 2X + 18** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 3, Equations 1-4**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **3X + 7= 4X**  1) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 2 + 2X = X + 10**  2) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **3X + 7 = 4X** |  | **Check to make sure “X” is correct:**  **X + 2 + 2X = X + 10** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 3X = X + X + 10**  3) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2X + 3 + 3X = X + 11**  4) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **X + 3X = X + X + 10** |  | **Check to make sure “X” is correct:**  **2X + 3 + 3X = X + 11** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 3, Equations 5-8**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **3X + 8 = 5X**  5) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 3 + 2X = X + 9**  6) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **3X + 8 = 5X** |  | **Check to make sure “X” is correct:**  **X + 3 + 2X = X + 9** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 3X = X + X + 12**  7) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2X + 2 + 2X = X + 8**  8) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **X + 3X = X + X + 12** |  | **Check to make sure “X” is correct:**  **2X + 2 + 2X = X + 8** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 4, Equations 1-4**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 2X + 5 = X + 19**  1) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 2X + 14 = 5X + 2**  2) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **X + 2X + 5 = X + 19** |  | **Check to make sure “X” is correct:**  **X + 2X + 14 = 5X + 2** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 4 + 2X = X + 20**  3) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 2 + 2X = X + 12**  4) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **X + 4 + 2X = X + 20** |  | **Check to make sure “X” is correct:**  **X + 2 + 2X = X + 12** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 4, Equations 5-8**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 3X + 8 = X + 14**  5) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 2X + 10 = 4X + 9**  6) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **X + 3X + 8 = X + 14** |  | **Check to make sure “X” is correct:**  **X + 2X + 10 = 4X + 9** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 3 + 2X = X + 11**  7) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 5 + 2X = X + 15**  8) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **X + 3 + 2X = X + 11** |  | **Check to make sure “X” is correct:**  **X + 5 + 2X = X + 15** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 5, Equations 1-4**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **4X – 2X + 4 = X + 10**  1) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 3X – X = 30**  2) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **4X – 2X + 4 = X + 10** |  | **Check to make sure “X” is correct:**  **X + 3X – X = 30** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **8 + 2X + 3 – X = 2X + 1**  3) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 2X – X + 7 = 4X – X + 2**  4) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **8 + 2X + 3 – X = 2X + 1** |  | **Check to make sure “X” is correct:**  **X + 2X – X + 7 = 4X – X + 2** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 5, Equations 5-8**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **4X – 3X + 4 = 2X + 2**  5) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 2X – X = 26**  6) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **4X – 3X + 4 = 2X + 2** |  | **Check to make sure “X” is correct:**  **X + 2X – X = 26** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **4 + 2X + 3 – X = 2X + 5**  7) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **X + 3X – X + 8 = 5X – X + 4**  8) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **4 + 2X + 3 – X = 2X + 5** |  | **Check to make sure “X” is correct:**  **X + 3X – X + 8 = 5X – X + 4** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 6, Equations 1-4**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2(X + 3) = 10**  1) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2(X + 3) = 9 + X**  2) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **2(X + 3) = 10** |  | **Check to make sure “X” is correct:**  **2(X + 3) = 9 + X** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2(2X + 1) = 3X + 8**  3) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2(2X + 3) = X + 9**  4) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **2(2X + 1) = 3X + 8** |  | **Check to make sure “X” is correct:**  **2(2X + 3) = X + 9** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 6, Equations 5-8**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2(X + 5) = 12**  5) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2(X + 5) = 18 + X**  6) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **2(X + 5) = 12** |  | **Check to make sure “X” is correct:**  **2(X + 5) = 18 + X** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2(2X + 1) = 3X + 5**  7) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2(2X + 3) = X + 18**  8) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **2(2X + 1) = 3X + 5** |  | **Check to make sure “X” is correct:**  **2(2X + 3) = X + 18** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 7, Equations 1-4**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **3X + 2X = 10**  1) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **4X + 2X = X + X + 20**  2) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **3X + 2X = 10** |  | **Check to make sure “X” is correct:**  **4X + 2X = X + X + 20** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **3X + 5 = X + 19**  3) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2(3X + 1) = X + 22**  4) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **3X + 5 = X + 19** |  | **Check to make sure “X” is correct:**  **2(3X + 1) = X + 22** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 7, Equations 5-8**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **3X + X = 12**  5) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **4X + 2X = X + X + 16**  6) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **3X + X = 12** |  | **Check to make sure “X” is correct:**  **4X + 2X = X + X + 16** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **3X + 4 = X + 18**  7) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “X” is:**  **2(3X + 1) = X + 27**  8) |
| **X =** |  | **X =** |
| **Check to make sure “X” is correct:**  **3X + 4 = X + 18** |  | **Check to make sure “X” is correct:**  **2(3X + 1) = X + 27** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 8, Equations 1-4**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “E” is:**  **E + E + E + 2 = E + E + 8**  1) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “E” is:**  **3E - E = E + 9**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” is correct:**  **E + E + E + 2 = E + E + 8** |  | **Check to make sure “E” is correct:**  **3E – E = E + 9** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “E” is:**  **5 + 2E + E = 3E – E + 8**  3) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “E” is:**  **2(5 + 2E) = 18 + 3E**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” is correct:**  **5 + 2E + E = 3E – E + 8** |  | **Check to make sure “E” is correct:**  **2(5 + 2E) = 18 + 3E** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 8, Equations 5-8**

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “E” is:**  **E + E + E + 2 = E + E + 7**  5) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “E” is:**  **3E – E = E + 7**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” is correct:**  **E + E + E + 2 = E + E + 7** |  | **Check to make sure “E” is correct:**  **3E – E = E + 7** |

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| **Use the Hands-n-Equations Manipulatives, to find out what the variable “E” is:**  **3 + 2E + E = 2E – E + 7**  7) |  | **Use the Hands-n-Equations Manipulatives, to find out what the variable “E” is:**  **2(4 + 3E) = 20 + 2E**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” is correct:**  **3 + 2E + E = 2E – E + 7** |  | **Check to make sure “E” is correct:**  **2(4 + 3E) = 20 + 2E** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 9, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **EVALUATE: X + X + E + 5**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **EVALUATE: E + 2X + 2E + 7**  2) |
| **X = 2**  **E =** |  | **X =**  **E = 3** |
| **Check to make sure “E” and “X” are correct:**  **X + X + E + 5** |  | **Check to make sure “E” and “X” are correct:**  **E + 2X + 2E + 7** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **EVALUATE: 3X + E + 10 + 3E**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **EVALUATE: 2X + 4E – E + 1**  4) |
| **X =**  **E = -2** |  | **X =**  **E = -5** |
| **Check to make sure “E” and “X” are correct:**  **3X + E + 10 + 3E** |  | **Check to make sure “E” and “X” are correct:**  **2X + 4E – E + 1** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 9, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **EVALUATE: X + X + X + E + 7**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **EVALUATE: E + 4X + 4E + 3**  6) |
| **X = 4**  **E =** |  | **X =**  **E = 6** |
| **Check to make sure “E” and “X” are correct:**  **X + X + X + E + 7** |  | **Check to make sure “E” and “X” are correct:**  **E + 4X + 4E + 3** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **EVALUATE: 6X + E + 8 + 6E**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **EVALUATE: 4X + 6E – E + 2**  8) |
| **X =**  **E = -5** |  | **X =**  **E = -3** |
| **Check to make sure “E” and “X” are correct:**  **6X + E + 8 + 6E** |  | **Check to make sure “E” and “X” are correct:**  **4X + 6E – E + 2** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 10, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X + X + E + 2 = 4**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3E = X + E + 9**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **X + X + E + 2 = 4** |  | **Check to make sure “E” and “X” are correct:**  **3E = X + E + 9** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3E + X = E + 6**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X + E + 4X = 16 + 2X**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3E + X = E + 6** |  | **Check to make sure “E” and “X” are correct:**  **X + E + 4X = 16 + 2X** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 10, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X + X + X + E + 3 = 5**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4E = X + E + 8**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **X + X + X + E + 3 = 5** |  | **Check to make sure “E” and “X” are correct:**  **4E = X + E + 8** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **5E + X = E + 9**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X + 2E + 3X = 13 + 2X**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **5E + X = E + 9** |  | **Check to make sure “E” and “X” are correct:**  **2X + 2E + 3X = 13 + 2X** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 11, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E + E = X + 9**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X + 4 = 2E**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **E + E = X + 9** |  | **Check to make sure “E” and “X” are correct:**  **2X + 4 = 2E** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X = E + 4**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3X = 10 + 2E**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **X = E + 4** |  | **Check to make sure “E” and “X” are correct:**  **3X = 10 + 2E** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 11, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E + E + E = X + 8**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X + 6 = 4E**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **E + E + E = X + 8** |  | **Check to make sure “E” and “X” are correct:**  **2X + 6 = 4E** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4X = 2E + 18**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **5X = 8 + 3E**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **4X = 2E + 18** |  | **Check to make sure “E” and “X” are correct:**  **5X = 8 + 3E** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 12, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E + E + E = X + 10 + 2**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4X + 14 = 3E**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **E + E + E = X + 10 + 2** |  | **Check to make sure “E” and “X” are correct:**  **4X + 14 = 3E** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3X = 3E + 30**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E + 3E + 20 = X**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3X = 3E + 30** |  | **Check to make sure “E” and “X” are correct:**  **E + 3E + 20 = X** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 12, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E + E + E = X + 10 + 6**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3X + 15 = 2E**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **E + E + E = X + 10 + 6** |  | **Check to make sure “E” and “X” are correct:**  **3X + 15 = 2E** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X = E + 24**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E + 2E + 8 = X**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **X = E + 24** |  | **Check to make sure “E” and “X” are correct:**  **E + 2E + 8 = X** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 13, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E + E + E + 2 = X + 10 + 4**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X + 14 = E + 2**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **E + E + E + 2 = X + 10 + 4** |  | **Check to make sure “E” and “X” are correct:**  **X + 14 = E + 2** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X + 10 = 3E + 2**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2E + X + 1 = 3X + 5**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **X + 10 = 3E + 2** |  | **Check to make sure “E” and “X” are correct:**  **2E + X + 1 = 3X + 5** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 13, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E + E + E + 4 = X + 10 + 10**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X + 18 = E + 4**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **E + E + E + 4 = X + 10 + 10** |  | **Check to make sure “E” and “X” are correct:**  **X + 18 = E + 4** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X + 13 = 2E + 4**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3E + 2X + 2 = 4X + 12**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **X + 13 = 2E + 4** |  | **Check to make sure “E” and “X” are correct:**  **3E + 2X + 2 = 4X + 12** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 14, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4E – X = 15**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3X – E = 3X + 11**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **4E – X = 15** |  | **Check to make sure “E” and “X” are correct:**  **3X – E = 3X + 11** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E – 4X + 7 = X + 1**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X - 4X + 6 = E + 3**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **E – 4X + 7 = X + 1** |  | **Check to make sure “E” and “X” are correct:**  **2X – 4X + 6 = E + 3** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 14, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3E – X = 12**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X – E = 2X + 10**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3E – X = 12** |  | **Check to make sure “E” and “X” are correct:**  **2X – E = 2X + 10** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E – 2X + 9 = X + 1**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X – 3X + 10 = E + 4**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **E – 2X + 9 = X + 1** |  | **Check to make sure “E” and “X” are correct:**  **X – 3X + 10 = E + 4** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 15, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3(-X) + (-X) = 9 + (-X)**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4(-X) – 2(-X) + 2 = 9 + (-X)**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3(-X) + (-X) = 9 + (-X)** |  | **Check to make sure “E” and “X” are correct:**  **4(-X) – 2(-X) + 2 = 9 + (-X)** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3X + 2(-X) + 1 = 2(-X) + 7**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3X – (-X) + 4 = 2(-X) + 10**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3X + 2(-X) + 1 = 2(-X) + 7** |  | **Check to make sure “E” and “X” are correct:**  **3X – (-X) + 4 = 2(-X) + 10** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 15, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4(-X) + (-X) = 12 + (-X)**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **5(-X) -3(-X) + 3 = 12 + (-X)**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **4(-X) + (-X) = 12 + (-X)** |  | **Check to make sure “E” and “X” are correct:**  **5(-X) -3(-X) + 3 = 12 + (-X)** |

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| --- | --- | --- |
| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X + 3(-X) + 4 = 2(-X) + 1**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4X – (-X) + 5 = 2(-X) + 19**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **2X + 3(-X) + 4 = 2(-X) + 1** |  | **Check to make sure “E” and “X” are correct:**  **4X – (-X) + 5 = 2(-X) + 19** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 16, Equations 1-4**

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| --- | --- | --- |
| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X + E + 5 = 2X**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3E + X + 2 = 2X + 10**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **2X + E + 5 = 2X** |  | **Check to make sure “E” and “X” are correct:**  **3E + X + 2 = 2X + 10** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X – 2E + 8 = 2E + 3X**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2(E + 3) + 5X = X + 20**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **X – 2E + 8 = 2E + 3X** |  | **Check to make sure “E” and “X” are correct:**  **2(E + 3) + 5X = X + 20** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 16, Equations 5-8**

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| --- | --- | --- |
| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3X + 2E + 10 = 3X**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4E + 2X + 3 = 3X + 13**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3X + 2E + 10 = 3X** |  | **Check to make sure “E” and “X” are correct:**  **4E + 2X + 3 = 3X + 13** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X – 4E + 6 = 3E + 2X**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2(E + 4) + 4X = X + 12**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **X – 4E + 6 = 3E + 2X** |  | **Check to make sure “E” and “X” are correct:**  **2(E + 4) + 4X = X + 12** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 17, Equations 1-4**

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| **(-3) + (-7) =**  1.a)  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png |  | **(+5) + (-3) =**  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png2.a) |
|  |  |  |
| **(-2) + (-5) =**  1.b)  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png |  | **Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png (-5) + (+2) =**  2.b) |

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| **(-3) – (-1) =**  3.a)  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png |  | **(-3) – (+2) =**  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png4.a) |
|  |  |  |
| **(-4) – (-2) =**  3.b)  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png |  | **(+3) – (-2) =**  4.b)  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png |

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**Hands-On-Equations: Lesson 17, Equations 5-8**

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| **(-1) + (-2) =**  5.a)  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png |  | **(-3) + (+4) =**  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png6.a) |
|  |  |  |
| **(-1) + (-4) =**  5.b)  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png |  | **Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png (+2) + (-6) =**  6.b) |

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| **(-5) – (-2) =**  7.a)  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png |  | **(-4) – (+2) =**  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png8.a) |
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| **(-6) – (-1) =**  7.b)  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png |  | **(+4) – (-2) =**  8.b)  Macintosh HD:Users:chrismiller:Desktop:xnumberline.gif.pagespeed.ic.hrps1PpLoR.png |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 18, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X + 4 = -6**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X + (-3) = -13**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **X + 4 = -6** |  | **Check to make sure “E” and “X” are correct:**  **2X + (-3) = -13** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3E + (-2) = 16**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E + 2E + (-5) = -11**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3E + (-2) = 16** |  | **Check to make sure “E” and “X” are correct:**  **E + 2E + (-5) = -11** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 18, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X + 5 = -8**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X + (-4) = -10**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **X + 5 = -8** |  | **Check to make sure “E” and “X” are correct:**  **2X + (-4) = -10** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4E + (-3) = 17**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2E + 2E + (-6) = -14**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **4E + (-3) = 17** |  | **Check to make sure “E” and “X” are correct:**  **2E + 2E + (-6) = -14** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 19, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E – 6 = 3**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X – 7 = -17**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **E – 6 = 3** |  | **Check to make sure “E” and “X” are correct:**  **2X – 7 = -17** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **5E – (-3) = -17**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **6X – (-10) = 16**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **5E – (-3) = -17** |  | **Check to make sure “E” and “X” are correct:**  **6X – (-10) = 16** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 19, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E – 5 = 8**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X – 6 = -4**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **E – 5 = 8** |  | **Check to make sure “E” and “X” are correct:**  **2X – 6 = -4** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4E – (-4) = -8**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3X – (-10) = 13**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **4E – (-4) = -8** |  | **Check to make sure “E” and “X” are correct:**  **3X – (-10) = 13** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 20, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3X + (-1) = -10 + 2X**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2E + (-5) = 2 + E**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3X + (-1) = -10 + 2X** |  | **Check to make sure “E” and “X” are correct:**  **2E + (-5) = 2 + E** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4E – (-2) = -8 + 2E**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **5X – (-10) = 2X + (-2)**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **4E – (-2) = -8 + 2E** |  | **Check to make sure “E” and “X” are correct:**  **5X – (-10) = 2X + (-2)** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 20, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4X + (-2) = -9 + 3X**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3E + (-6) = 2 + E**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **4X + (-2) = -9 + 3X** |  | **Check to make sure “E” and “X” are correct:**  **3E + (-6) = 2 + E** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **5E – (-5) = -10 + 2E**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **6X – (-9) = 2X + (-3)**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **5E – (-5) = -10 + 2E** |  | **Check to make sure “E” and “X” are correct:**  **6X – (-9) = 2X + (-3)** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 21, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3E + 2 = -10 + x**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X + X + E + (-1) = 7 + 2E**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3E + 2 = -10 + X** |  | **Check to make sure “E” and “X” are correct:**  **2X + X + E + (-1) = 7 + 2E** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2E – 4 + 4X = X + 5**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3E – (-5) + X = 2X + (-3)**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **2E – 4 + 4X = X + 5** |  | **Check to make sure “E” and “X” are correct:**  **3E – (-5) + X = 2X + (-3)** |

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**Hands-On-Equations: Lesson 21, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4E + 1 = -9 + X**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X + 2X + E + (-3) = 5 + 2E**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **4E + 1 = -9 + X** |  | **Check to make sure “E” and “X” are correct:**  **X + 2X + E + (-3) = 5 + 2E** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3E – 6 + 4X = X + 3 + E**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3E – (-7) + 2X = 3X + (-1)**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3E – 6 + 4X = X + 3 + E** |  | **Check to make sure “E” and “X” are correct:**  **3E – (-7) + 2X = 3X + (-1)** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 22, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2(X – 1) + 4E = 3E + 6**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2(X – 5) + X = 4X + 2E + (-16)**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **2(X – 1) + 4E = 3E + 6** |  | **Check to make sure “E” and “X” are correct:**  **2(X – 5) + X = 4X + 2E + (-16)** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3(E + -5) + E = X + (-5)**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2(2E – 7) + E = 4 + E + 2X**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3(E + -5) + E = X + (-5)** |  | **Check to make sure “E” and “X” are correct:**  **2(2E -7) + E = 4 + E + 2X** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 22, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2(X – 3) + 5E = 2E + 4**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3(X – 1) + 2X = 3X + E + (-9)**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **2(X – 3) + 5E = 2E + 4** |  | **Check to make sure “E” and “X” are correct:**  **3(X – 1) + 2X = 3X + E + (-9)** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2(E + -5) + E = X + (-6)**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2(2E – 3) + X = 4 + E + 3X**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **2(E + -5) + E = X + (-6)** |  | **Check to make sure “E” and “X” are correct:**  **2(2E – 3) + X = 4 + E + 3X** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 23, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3X – 2(E + 4) = 2X + 1**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E – 2(2X + 1) = 3E + (-10)**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3X – 2(E + 4) = 2X + 1** |  | **Check to make sure “E” and “X” are correct:**  **E – 2(2X + 1) = 3E + (-10)** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X + E – 2(X + 4) = 3X**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X – (3E + 1) = E - 6**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **2X + E – 2(X + 4) = 3X** |  | **Check to make sure “E” and “X” are correct:**  **X – (3E + 1) = E - 6** |

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**Hands-On-Equations: Lesson 23, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4X – 2(E + 1) = 2X + 10**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **E – 2(2X + 3) = 3E + (-8)**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **4X – 2(E + 1) = 2X + 10** |  | **Check to make sure “E” and “X” are correct:**  **E – 2(2X + 3) = 3E + (-8)** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3X + E – 2(X + 4) = 2X**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **X – (3E + 2) = 2E - 14**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3X + E – 2(X + 4) = 2X** |  | **Check to make sure “E” and “X” are correct:**  **X – (3E + 2) = 2E - 14** |

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**Hands-On-Equations: Lesson 24, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X – 3(-X) – 5 = 7 + (-X)**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3(-X) – (-2 + X) = 2X - 4**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **2X – 3(-X) – 5 = 7 + (-X)** |  | **Check to make sure “E” and “X” are correct:**  **3(-X) – (-2 + X) = 2X - 4** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2(-X + 8) – (-3) = 2X + 3**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2(-X + 3X) + 3(-X) + 7 = (-X) + (-3)**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **2(-X + 8) – (-3) = 2X + 3** |  | **Check to make sure “E” and “X” are correct:**  **2(-X + 3X) + 3(-X) + 7 = (-X) + (-3)** |

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**Hands-On-Equations: Lesson 24, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X – 4(-X) - 5 = 2 + (-X)**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4(-X) – (-1 + X) = 3X - 7**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **2X – 4(-X) – 5 = 2 + (-X)** |  | **Check to make sure “E” and “X” are correct:**  **4(-X) – (-1 + X) = 3X - 7** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2(-X + 5) – (-2) = 2X + 4**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2(-X + 4X) + 4(-X) + 5 = (-X) + (-4)**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **2(-X + 5) – (-2) = 2X + 4** |  | **Check to make sure “E” and “X” are correct:**  **2(-X + 4X) + 4(-X) + 5 = (-X) + (-4)** |

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ No.\_\_\_\_

**Hands-On-Equations: Lesson 25, Equations 1-4**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2E + E + 5 = -15 + X**  1) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2(-X) + 4X = 3(-X) + X - 20**  2) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **2E + E + 5 = -15 + X** |  | **Check to make sure “E” and “X” are correct:**  **2(-X) + 4X = 3(-X) + X - 20** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3X – 2(-X) + (-2) = 3(-X) - 10**  3) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **2X – 2(-X + 4) = X + (-2)**  4) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3X – 2(-X) + (-2) = 3(-X) - 10** |  | **Check to make sure “E” and “X” are correct:**  **2X – 2(-X + 4) = X + (-2)** |

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**Hands-On-Equations: Lesson 25, Equations 5-8**

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3E + E + 5 = -13 + 2X**  5) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4(-X) + 5X = 2(-X) + X - 16**  6) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **3E + E + 5 = -13 + 2X** |  | **Check to make sure “E” and “X” are correct:**  **4(-X) + 5X = 2(-X) + X - 16** |

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| **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **4X – 2(-X) + (-3) = 2(-X) - 11**  7) |  | **Use the Hands-On-Equations Manipulatives, to find out what the variable “E” and “X” are:**  **3X – 2(-X + 5) = X + (-2)**  8) |
| **X =**  **E =** |  | **X =**  **E =** |
| **Check to make sure “E” and “X” are correct:**  **4X – 2(-X) + (-3) = 2(-X) - 11** |  | **Check to make sure “E” and “X” are correct:**  **3X – 2(-X + 5) = X + (-2)** |

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**Hands-On-Equations: Lesson 26, Equations 1-10**

**FINAL EQUATIONS**

**1) 5X + 3 = 2X + 15 2) 4X + 3 = 2X + 17**

**3) 2X + X + X + 5 = 3X – X + 13 4) 3X + X + X + 4 = 2X – X + 8**

**5) 2(X + 5) + 2X = X + 16 6) 2(X + 4) + 3X = X + 16**

**7) 2(3X + 2) + X = 3X + 4 8) 2(2X + 4) + X = 2X + 11**

**9) 3X + (-X) + 2 = X + 5 10) 4X + (-X) + 3 = X + 9**

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**Hands-On-Equations: Lesson 26, Equations 11-20**

**11) 2X + (-X) + 1 = 3(-X) + 17 12) 3X + (-X) + 4 = 4(-X) + 22**

**13) 3X – (-X) + 1 = 3(-X) + 8 14) 4X – (-X) + 1 = 2(-X) + 8**

**15) 2(-X + 4) – (-5) = 2X + 5 16) 2(-X + 5) – (-2) = 2X + 4**

**17) 3X – 3(-X) + (-6) = 2(-X) + 14 18) 3X – 3(-X) + (-6) = 2(-X) + 2**

**19) 2X – 2(-X + 5) = X + (-1) 20) 2X – 2(-X + 5) = X + (-4)**