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**

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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** |

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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)** |

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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** |

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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** |

|  |  |  |
| --- | --- | --- |
| **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) |

|  |  |  |
| --- | --- | --- |
| **(-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 |

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

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

|  |  |  |
| --- | --- | --- |
| **(-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) |

|  |  |  |
| --- | --- | --- |
| **(-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)  |
|  |  |  |
| **(-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** |

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**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)** |

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**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)** |

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**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** |

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**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)** |

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**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** |

|  |  |  |
| --- | --- | --- |
| **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)**