|  |  |  |
| --- | --- | --- |
| **1.** -6(*x* + 5) | **2.** ( *y* - 7)8 | **3.** (-6*b* - 2)(-3) |
| **4.** (*r* - 3)(-4) | **5.** 7(*m* - 1) | **6.** -8(-5*x* + 3 ) |
| **7.** (3*x* - 4)(-2) | **8.** (-2)(*a* + 3) | **9.** (-6*b* - 2)(-3) |

**Solve using the distributive property.**

**Evaluate the function for these values of *x*: –2, –1, 0, and 1. Organize your results in a table.**

**10.** *y* = *x* + 5 11**.** *y* = *x* - 4 12**.** *y* = 11 - *x*

|  |  |
| --- | --- |
| X | Y |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
| X | Y |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
| X | Y |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**13.** *y* = -*x* + 9 **14.** *y* = -*x* + 8.6 **15.** *y* = 21 + *x*

|  |  |
| --- | --- |
| X | Y |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
| X | Y |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
| X | Y |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**16.** *y* = -*x* - (-15) **17.** *y* = -7.5 - (-*x*) **18.** *y* = -*x* + 16 - *x*

|  |  |
| --- | --- |
| X | Y |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
| X | Y |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
| X | Y |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

**Evaluate the expression for the given value of *x*.**

**19.** 9 + *x* + (-10), *x* = 3 **20.** *x* + (-6) + (-7), *x* = -11 **21.** -12 + *x* + *x*, *x* = -6

**22.** -12 + 5 + *x*, *x* = -13 **23.** -3 + 8 + *x* + (-4), *x* = 16 **24.** *x* + (-14) + 2, *x* = 8

**Graph the numbers on a number line. Then write the numbers in increasing order.**

25. 3, 1, 5, 0, -2, 4



26. 2, -4, 0, -5, -4, -1.5



27. 2.5, -1.5, -1, -5, -3, -6



28. -1, -3, -2, -5



29. 3.5, -2.4, -1.8, 0.9



30. 3, -11, -3, -9



31. -1.62, 1.8, 1.75, -1.7



**Evaluate the expression.**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **32.** 12 + 5 - 1 | | **33.** | 13 - 15 + 4 | |  | **34.** | 18 - 5 – 16 |
| **35.** -4 + 3 + 12 | | **36.** | -28 + 12 - 5 | |  | **37.** | -33 - 24 + 42 |
| **38.** -6.2 - 4.8 - 2.5 | | **39.** | -4.5 - 3.6 + 2.7 | |  | **40.** | -4.8 + 7 - 2.9 |
|  |  |  | |