**Write an integer to represent each situation.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **1.** | An increase of 11 points. | **2.** | A profit of 400 dollars. | **3.** | The stock market went down 297 points today. |
|  |  |  |  |  |  |
| **4.** | 8 units to the left of -4 on a number line. | **5.** | Deposit $1,556 into a bank account. | **6.** | 20 °C below zero |
|  |  |  |  |  |  |

**Graph each integer or set of integers on a number line.**

|  |  |  |
| --- | --- | --- |
| **7.** |  $-5$  | **0****1****2****3****4** **-1** **-2****-3****-4****5****6** **-5** **-6** |
| **8.** | $$\left\{-4,-2,5\right\}$$ | **0****1****2****3****4** **-1** **-2****-3****-4****5****6** **-5** **-6** |
| **9.** | $\left\{-3, -1,2,4\right\}$  | **0****1****2****3****4** **-1** **-2****-3****-4****5****6** **-5** **-6** |

**Find the opposite of each integer.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **10.** | Opposite of $-12$ | **11.** | Opposite of $-232$ | **12.** | Opposite of $+55$ |
|  |  |  |  |  |  |
| **13.** | Opposite of$ -1$ | **14.** | Opposite of $+63$ | **15.** | Opposite of$ -18$ |
|  |  |  |  |  |  |

**Graph each integer and its opposite on a number line.**

|  |  |  |
| --- | --- | --- |
| **16.** |  $-6$  | **0****1****2****3****4** **-1** **-2****-3****-4****5****6** **-5** **-6** |
| **17.** | $$1$$ | **0****1****2****3****4** **-1** **-2****-3****-4****5****6** **-5** **-6** |
| **18.** | $$-2$$ | **0****1****2****3****4** **-1** **-2****-3****-4****5****6** **-5** **-6** |

**Compare the following integers.** **Write**$ <,=or>.$

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **19.** | $$23\\_\\_\\_\\_\\_-32$$ | **20.** | $$-45\\_\\_\\_-32$$ | **21.** | $$-13\\_\\_\\_\\_\\_-13$$ |
|  |  |  |  |  |  |

**Find the absolute value of the following numbers.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **22.** | $$\left|-7\right|=$$ | **23.** | $$\left|-27\right|=$$ | **24.** | $$\left|+75\right|=$$ |
|  |  |  |  |  |  |
| **25.** | $$\left|-14\right|=$$ | **26.** | $$\left|+197\right|=$$ | **27.** | $$\left|+25\right|=$$ |
|  |  |  |  |  |  |

**Order the values from least to greatest.**

|  |  |  |  |
| --- | --- | --- | --- |
| **27.** | $$ 3 ,\left|-13\right|, 10,-2, \left|-1\right|$$ | **28.** | $$-5, \left|-15\right|,\left|-18\right|, -1, \left|-2\right|$$ |

|  |  |  |  |
| --- | --- | --- | --- |
| **29.** | $$\left|-45\right|-3\*\left|+10\right|+9÷3=$$ | **30.** | $$ 63-\left|-15\right|÷3-\left|+20\right|+18÷2=$$ |
|  |  |  |  |

**ANSWERS**

**Write an integer to represent each situation.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **1.** | An increase of 11 points. | **2.** | A profit of 400 dollars. | **3.** | The stock market went down 297 points today. |
|  | $$+11$$ |  | $$+400$$ |  | $$-297$$ |
| **4.** | 8 units to the left of -4 on a number line. | **5.** | Deposit $1,556 into a bank account. | **6.** | 20 °C below zero |
|  | $$-12$$ |  | $$+1,556$$ |  | $$-20$$ |

**Graph each integer or set of integers on a number line.**

|  |  |  |
| --- | --- | --- |
| **7.** |  $-5$  | $-5$**0****1****2****3****4** **-1** **-2****-3****-4****5****6** **-5** **-6** |
| **8.** | $$\left\{-4,-2,5\right\}$$ | $$\left\{-4,-2,5\right\}$$**0****1****2****3****4** **-1** **-2****-3****-4****5****6** **-5** **-6** |
| **9.** | $\left\{-3, -1,2,4\right\}$  | $$\left\{-3, -1,2,4\right\}$$**0****1****2****3****4** **-1** **-2****-3****-4****5****6** **-5** **-6** |

**Find the opposite of each integer.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **10.** | Opposite of $-12$ | **11.** | Opposite of $-232$ | **12.** | Opposite of $+55$ |
|  | $$+12$$ |  | $$+232$$ |  | $$-55$$ |
| **13.** | Opposite of$ -1$ | **14.** | Opposite of $+63$ | **15.** | Opposite of$ -18$ |
|  | $$+1$$ |  | $$-63$$ |  | $$+18$$ |

**Graph each integer and its opposite on a number line.**

|  |  |  |
| --- | --- | --- |
| **16.** |  $-6$  | $+6$**0****1****2****3****4** **-1** **-2****-3****-4****5****6** **-5** **-6** |
| **17.** | $$1$$ | $$-1$$**0****1****2****3****4** **-1** **-2****-3****-4****5****6** **-5** **-6** |
| **18.** | $$-2$$ | $$+2$$**0****1****2****3****4** **-1** **-2****-3****-4****5****6** **-5** **-6** |

**Compare the following integers.** **Write**$ <,=or>.$

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **19.** | $$23\\_\\_\\_\\_\\_-32$$ | **20.** | $$-45\\_\\_\\_-32$$ | **21.** | $$-13\\_\\_\\_\\_\\_-13$$ |
|  | $$23>-32$$ |  | $$-45<-32$$ |  | $$-13=-13$$ |

**Find the absolute value of the following numbers.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **22.** | $$\left|-7\right|=$$ | **23.** | $$\left|-27\right|=$$ | **24.** | $$\left|+75\right|=$$ |
|  | $$\left|-7\right|=7$$ |  | $$\left|-27\right|=27$$ |  | $$\left|+75\right|=75$$ |
| **25.** | $$\left|-14\right|=$$ | **26.** | $$\left|+197\right|=$$ | **27.** | $$\left|+25\right|=$$ |
|  | $$\left|-14\right|=14$$ |  | $$\left|+197\right|=197$$ |  | $$\left|+25\right|=25$$ |

**Order the values from least to greatest.**

|  |  |  |  |
| --- | --- | --- | --- |
| **27.** | $$ 3 ,\left|-13\right|, 10,-2, \left|-1\right|$$ | **28.** | $$-5, \left|-15\right|,\left|-18\right|, -1, \left|-2\right|$$ |
|  | $$ 3 ,\left|-13\right|, 10,-2, \left|-1\right|$$$$\left|-13\right|=13 \left|-1\right|=1 $$$$ 3 , 13, 10, -2, 1$$$$ -2, 1, 3, 10, 13$$$$ -2, \left|-1\right|, 3 , 10, \left|-13\right|$$ |  | $$-5, \left|-15\right|,\left|-18\right|, -1, \left|-2\right|$$$$\left|-15\right|=15 \left|-18\right|=18 \left|-2\right|= 2$$$$-5, 15, 18, -1, 2$$$$-5, -1, 2, 15, 18$$$$-5, -1, \left|-2\right|, \left|-15\right|, \left|-18\right| $$$$ $$ |

|  |  |  |  |
| --- | --- | --- | --- |
| **29.** | $$\left|-45\right|-3\*\left|+10\right|+9÷3=$$ | **30.** | $$ 63-\left|-15\right|÷3-\left|+20\right|+18÷2=$$ |
|  | $$ \left|-45\right|-3\*\left|+10\right|+9÷3=$$$$=45-3\*10+9÷3=$$$$=45-30+3=$$$$=15+3=$$$$=18$$ |  | $$ 63-\left|-15\right|÷3-\left|+20\right|+18÷2=$$$$=63-15÷3-20+18÷2=$$$$=63-5-20+9=$$$$=58-20+9=$$$$=38+9=$$$$=47$$ |