

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Bell: \_\_\_\_\_

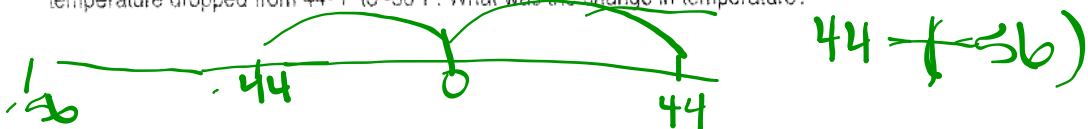
1) A scuba diver was swimming at an elevation of  $-8$  meters. A shark was swimming at an elevation of  $-29$  meters. Find the difference between these two elevations?

$$-8 - (-29) \quad (21)$$

2) Mr. Smith started with a balance of \$100 in his checking account. One day he wrote checks for \$33 and \$20. He also made a deposit of \$41. What was his new balance?

$$\begin{array}{r} 100 \\ - 33 \\ - 20 \\ \hline 47 \end{array} \quad \begin{array}{r} 47 \\ + 41 \\ \hline (88) \end{array}$$

3) The greatest temperature change ever recorded in a single day occurred in Browning, Montana, in 1916. The temperature dropped from  $44^{\circ}\text{F}$  to  $-56^{\circ}\text{F}$ . What was the change in temperature?



4) The world's tallest mountain, if measured from base to peak, is Mauna Kea in Hawaii. The base has an elevation of  $-19,680$  feet. The peak has an elevation of  $13,796$  feet. How tall is Mauna Kea?

$$33.476 \quad 19,680 + 13,796$$

**Warm Up**

# Why Did Farmer John Ask the Supermarket Manager Where the Overalls Were?



Write the letter of each exercise in the box containing the answer.

Find the sum.

- E.  $-7 + (-2)$  **-9**
- A.  $-6 + (-8)$  **-14**
- I.  $-17 + (-10)$  **-27**
- S.  $12 + 13$  **25**
- T.  $-75 + (-5)$  **-80**
- O.  $-4 + 9$  **5**
- T.  $-9 + 4$  **-5**
- S.  $38 + (-3)$  **35**
- E.  $11 + (-18)$  **-7**
- C.  $-24 + (-24)$  **-48**

Find the sum.

- O.  $-64 + 60$  **-4**
- E.  $12 + (-36)$  **-24**
- A.  $-15 + 18$  **3**
- V.  $101 + (-2)$  **99**
- R.  $-30 + (-40)$  **-70**
- H.  $-18 + 8$  **-10**
- M.  $-45 + (-45)$  **-90**
- T.  $52 + (-58)$  **-6**
- H.  $180 + 180$  **360**
- L.  $999 + (-999)$  **0**

-5	-10	-24	-19	25	-6	5	-70	-9	92	-48	0	3	-27	-90	35	-8	-80	-4	41	360	-14	99	-7
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Find the sum.

- E.  $-10 + (-1)$  **-11**
- S.  $-24 + 6$  **-18**
- T.  $60 + (-15)$  **45**
- I.  $-7 + (-21)$  **-28**
- L.  $9 + (-39)$  **-30**
- E.  $-32 + 64$  **32**
- O.  $88 + (-55)$  **33**
- T.  $-100 + 25$  **-75**

Evaluate if  $a = 7$ ,  $b = -20$ ,  $x = -34$ ,  $y = -9$ .

- R.  $a + b$  **-13**
- S.  $b + b$  **-40**
- P.  $-12 + a$  **-5**
- E.  $b + 81$  **61**
- A.  $x + y$  **-43**
- C.  $x + x$  **-68**
- B.  $100 + y$  **91**
- R.  $x + 50$  **16**

Solve.

- H. The price of a stock went down \$4.25 on Monday and then down \$2.75 on Tuesday. What was the overall change in price for the two days? **-7.00**
- E. Between midnight and 6:00 A.M., the temperature dropped  $10^{\circ}\text{F}$ . Between 6:00 A.M. and noon, the temperature rose  $18^{\circ}\text{F}$ . What was the change in temperature from midnight to noon? **8**

Scores for three rounds of a computer game are given in the table. Solve.

- L. What was the total number of points scored in the first two rounds? **-500**
- V. What was the total number of points scored in all three rounds? **200**

Round	Points
1	300
2	-800
3	700

-75	-\$7	61	-\$9	91	32	-40	45	5°F	33	200	-11	-13	-43	-500	-30	74	-5	16	-28	-68	8°F	-18
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2  
PRE-ALGEBRA WITH PIZZAZZ!  
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### What should you do when you can't sleep?

Do any exercise below and find your answer in the corresponding answer column. The letter of the exercise goes in the box that contains the number of the answer. Keep working and you will discover the answer to the title question.

<b>T</b> $3 - 7 = -4$	<b>41</b> $-10$	<b>E</b> $-5 - -15 = 10$	<b>10</b> $17$	<b>E</b> $-3 - -1 = -2$	<b>38</b> $18$
<b>R</b> $-2 - 5 = -7$	<b>9</b> $8$	<b>R</b> $8 - -9 = 17$	<b>24</b> $8$	<b>C</b> $-7 - 8 = -15$	<b>25</b> $-10$
<b>E</b> $7 - -1 = 8$	<b>13</b> $-4$	<b>D</b> $3 - 13 = -10$	<b>12</b> $2$	<b>S</b> $2 - -5 = 7$	<b>26</b> $-2$
<b>U</b> $9 - 3 = 6$	<b>29</b> $5$	<b>O</b> $-2 - -4 = 2$	<b>4</b> $10$	<b>M</b> $13 - 4 = 9$	<b>42</b> $0$
<b>O</b> $-5 - -10 = 5$	<b>23</b> $-6$	<b>Y</b> $-6 - 6 = -12$	<b>17</b> $-8$	<b>O</b> $-2 - -20 = 18$	<b>33</b> $-15$
<b>F</b> $1 - 11 = -10$	<b>37</b> $-7$	<b>E</b> $15 - 7 = 8$	<b>27</b> $-10$	<b>F</b> $-9 - -9 = 0$	<b>1</b> $9$
<b>H</b> $-8 - -2 = -6$	<b>32</b> $6$	<b>D</b> $-9 - -1 = -8$	<b>30</b> $-12$	<b>B</b> $6 - 16 = -10$	<b>8</b> $7$
*****					
<b>C</b> $4 - -4 = 8$	<b>15</b> $-7$	<b>O</b> $5 - 5 = 0$	<b>35</b> $-1$	<b>O</b> $-7 - 4 = -11$	<b>3</b> $14$
<b>O</b> $-3 - -7 = 4$	<b>11</b> $9$	<b>E</b> $-4 - 10 = -14$	<b>20</b> $0$	<b>E</b> $4 - 7 = -3$	<b>16</b> $-3$
<b>A</b> $-1 - 12 = -13$	<b>2</b> $4$	<b>T</b> $-9 - -5 = -4$	<b>7</b> $4$	<b>L</b> $-4 - -7 = 3$	<b>36</b> $-14$
<b>E</b> $2 - 9 = -7$	<b>34</b> $-13$	<b>N</b> $6 - 7 = -1$	<b>28</b> $17$	<b>P</b> $7 - -4 = 11$	<b>6</b> $3$
<b>F</b> $17 - 4 = 13$	<b>31</b> $-9$	<b>S</b> $15 - -2 = 17$	<b>14</b> $-17$	<b>G</b> $-7 - -7 = 0$	<b>40</b> $-11$
<b>O</b> $-11 - -2 = -9$	<b>5</b> $8$	<b>O</b> $-8 - -12 = 4$	<b>22</b> $-4$	<b>V</b> $7 - -7 = 14$	<b>18</b> $0$
<b>T</b> $6 - -3 = 9$	<b>21</b> $13$	<b>H</b> $-11 - 6 = -17$	<b>19</b> $-14$	<b>D</b> $-7 - 7 = -14$	<b>39</b> $11$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42

## INTEGER OPERATIONS *Pyramid Sum Puzzle*

Directions: Evaluate each expression. Record your answers in the circles. Cut out the boxes and paste L, E, S, I, U, and P on the top row (in that order) on the template. Paste the remaining boxes so that the solution to each problem is the sum of the two solutions directly above it.

<b>A</b> $-54 \div 2 =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>B</b> $-48 \div 16 =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>C</b> $-27 - 19 =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>D</b> $53 - (-15) =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>E</b> $-45 \div -9 =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>F</b> $32 - (-5) =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>
<b>G</b> $-11 \cdot -3 =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>H</b> $52 \div -13 =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>I</b> $30 \div -2 =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>J</b> $-68 - (-6) =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>K</b> $-47 - 6 =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>L</b> $37 + (-6) =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>
<b>M</b> $-8 \cdot 2 =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>N</b> $-42 \div -6 =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>O</b> $-16(-4) =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>P</b> $-19 \cdot -3 =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>Q</b> $-9(-4) =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>R</b> $-24 - 2 =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>
<b>S</b> $-72 \div 9 =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>T</b> $-41 - (-18) =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>	<b>U</b> $-10 - (-21) =$ <input style="width: 40px; height: 20px; border: 1px solid black;" type="text"/>			

$-16(-4)$   
means multiply

# Why Is a Shooting Star Better Than a Hamburger?

For each set of exercises, there is one extra answer. Write the letter of this answer in the corresponding box at the right.

5	3	8	1	10	6	9	2	4	7
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<p><b>1 Find the quotient.</b></p> <p>a. <math>-40 \div 5</math></p> <p>b. <math>30 \div (-15)</math></p> <p>c. <math>-88 \div (-11)</math></p> <p>d. <math>-100 \div (-4)</math></p>	<p><b>6 Simplify.</b></p> <p>a. <math>\frac{-49}{7} + \frac{-64}{8}</math></p> <p>b. <math>\frac{150}{-15} + \frac{-13}{-13}</math></p> <p>c. <math>\frac{-26}{-13} + \frac{-60}{5}</math></p> <p>d. <math>\frac{-99}{-1} + \frac{0}{-99}</math></p>
<p><b>2 Find the quotient.</b></p> <p>a. <math>\frac{-54}{9}</math></p> <p>b. <math>\frac{-36}{-12}</math></p> <p>c. <math>\frac{75}{-25}</math></p> <p>d. <math>\frac{0}{-10}</math></p>	<p><b>7 Evaluate if <math>x = -2</math>, <math>y = -6</math>.</b></p> <p>a. <math>\frac{xy}{-3}</math></p> <p>b. <math>\frac{8y}{x}</math></p> <p>c. <math>\frac{-9x}{y}</math></p> <p>d. <math>\frac{144}{-xy}</math></p>
<p><b>3 Find the quotient.</b></p> <p>a. <math>-48 \div (-3)</math></p> <p>b. <math>-36 \div 18</math></p> <p>c. <math>180 \div (-10)</math></p> <p>d. <math>900 \div 450</math></p>	<p><b>8 Evaluate if <math>k = 3</math>, <math>n = -8</math>.</b></p> <p>a. <math>\frac{kn}{2}</math></p> <p>b. <math>\frac{k+n}{-5}</math></p> <p>c. <math>\frac{96}{-kn}</math></p> <p>d. <math>\frac{9n}{4k}</math></p>
<p><b>4 Simplify.</b></p> <p>a. <math>\frac{150}{-2}</math></p> <p>b. <math>\frac{-7500}{-75}</math></p> <p>c. <math>\frac{-24+9}{-8+3}</math></p> <p>d. <math>\frac{-24+9}{-8+3}</math></p>	<p><b>9 Solve mentally.</b></p> <p>a. <math>\frac{x}{7} = -6</math></p> <p>b. <math>\frac{b}{-3} = -14</math></p> <p>c. <math>\frac{360}{q} = -36</math></p> <p>d. <math>\frac{-64}{m} = 4</math></p>
<p><b>5 Simplify.</b></p> <p>a. <math>\frac{-13+1}{3}</math></p> <p>b. <math>\frac{(-15)(-4)}{-6}</math></p> <p>c. <math>\frac{-20-25}{-15}</math></p> <p>d. <math>\frac{100-(-20)}{30}</math></p>	<p><b>10 Solve mentally.</b></p> <p>a. <math>8y = -56</math></p> <p>b. <math>-3p = -63</math></p> <p>c. <math>80 \div u = 2</math></p> <p>d. <math>80 \div (-v) = 2</math></p>

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