

PreAlgebra - Lesson 2-2 Problem-Solving Practice

Adding Integers

<p>1. A submarine descends 32 feet below the surface. It rises 13 feet to look at a coral reef. Write an addition sentence to find its current depth.</p>	<p>2. In January, the temperature at the summit of Mt. Everest averages -36°C and can drop as low as -60°C. In July, the average summit temperature is 17°C warmer. What is the average temperature at the summit of Mt. Everest in July?</p>												
<p>3. Yosemite Falls is the highest waterfall in North America and the fifth highest in the world. When viewed from the valley, it appears to be a single waterfall. However, it actually has three parts. The upper fall has the longest drop of 1430 feet. The middle cascade is 675 feet long, and the lower fall drops another 320 feet. What is the total length that the water falls?</p>	<p>4. The platform of a roller coaster is 5 feet off the ground. The first hill rises an additional 122 feet. The first drop is 118 feet. How far off the ground is the roller coaster after the first drop?</p>												
<p>5. The Dow Jones Industrial Average Index is an index that tracks the performance on the New York Stock Exchange of 30 of the largest companies in the United States. The table below shows the change in the DJIA on a given trading day.</p> <table border="1" style="margin: 10px auto; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #e0e0e0;"> <th colspan="2">Dow Jones Industrial Average</th> </tr> <tr style="background-color: #e0e0e0;"> <th>Time</th> <th>Change</th> </tr> </thead> <tbody> <tr> <td>10:00 A.M.</td> <td>+3.00</td> </tr> <tr> <td>12:00 P.M.</td> <td>-5.00</td> </tr> <tr> <td>2:00 P.M.</td> <td>-2.00</td> </tr> <tr> <td>4:00 P.M.</td> <td>+6.00</td> </tr> </tbody> </table> <p>Write an expression to show the change in value of the DJIA during the day.</p>	Dow Jones Industrial Average		Time	Change	10:00 A.M.	+3.00	12:00 P.M.	-5.00	2:00 P.M.	-2.00	4:00 P.M.	+6.00	<p>6. Refer to the table in Exercise 5. By the end of the day, did the DJIA gain or lose value? Explain your reasoning.</p>
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