



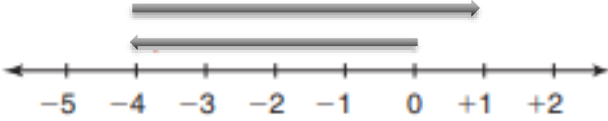
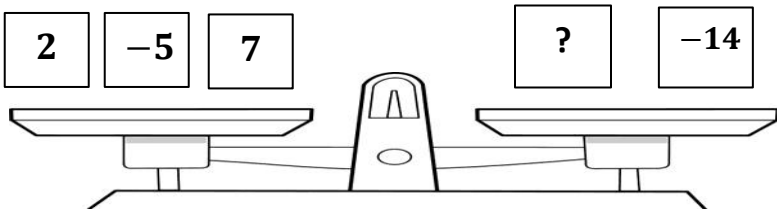


# Island Numeracy Network Assessment

## Grade 7+: Number Sense B

### Integers and Equation Solving

<b>1</b>	<p>Mt. Everest is 8 848 metres above sea level.</p> <p>The Dead Sea is 400 metres below sea level.</p> <p>Which equation best describes the difference in elevation between the two locations?</p> <p>a) <math>8\ 848 - 400</math>            b) <math>8\ 848 + (-400)</math>            c) <math>400 - 8\ 848</math>            d) <math>8\ 848 - (-400)</math></p> <div style="text-align: right;">  </div>	
<b>2</b>	<p>Each set of algebra tiles models (+5).</p> <p>Write the equation being modeled for Set B and Set C.</p> <p><b>Set A</b> </p> <p><b>Set B</b>  <input style="width: 150px; height: 30px; margin-left: 20px;" type="text"/></p> <p><b>Set C</b>  <input style="width: 150px; height: 30px; margin-left: 20px;" type="text"/></p>	
<b>3</b>	<p>Order the integer values from greatest to least.</p> <p style="text-align: center;"><math>\{8, +10, -11, 0, -5, 4, 1\}</math></p>	
<b>4</b>	<p>Which addition equation does the number line model?</p> <div style="text-align: center;">  </div> <p>Describe a situation that the number line could represent.</p>	

<p><b>5</b></p>	<p>Are the following statements <i>always true, sometimes true or never true?</i></p> <p>The sum of two positive integers is positive. _____</p> <p>When subtracting two integers the answer is always negative. _____</p> <p>When multiplying two negative integers the answer is always negative. _____</p> <p>When dividing a positive integer by a smaller negative integer the answer is always positive. _____</p>	
<p><b>6</b></p>	<p>A friend simplifies the expression <math>(-2) \times 5 - (-5)</math> and tells you it is <math>(-15)</math>. You don't agree.</p> <p>Where did your friend go wrong? Which is the correct answer?</p>	
<p><b>7</b></p>	<p>Identify two integers with a sum of <math>(-1)</math> and a difference of 5.</p>	
<p><b>8</b></p>	<p>Which integer will balance the values?</p> 	
<p><b>9</b></p>	<p>Simplify <math>6^2 \div 2(-3) - (-4)</math></p>	
<p><b>10</b></p>	<p>Write an equation that includes four integers, three different operations and equals <math>(-10)</math>.</p>	
<p><b>11</b></p>	<p>You have a thermometer to record the highest and lowest temperatures.</p> <p>On Sunday the temperature started at <math>4^{\circ}\text{C}</math>. Overnight the temperature fell by <math>5^{\circ}</math>.</p> <p>Monday it rose by <math>6^{\circ}</math>. Monday night it fell by <math>10^{\circ}</math>.</p> <p>On Tuesday it rose by <math>4^{\circ}</math> and fell by <math>2^{\circ}</math> overnight.</p> <p>What is the minimum <b>and</b> maximum temperature you record?</p>	

**Island Numeracy Assessment**  
**Grade 7+: Number Sense**  
**Performance Task**

**Peaches Today, Peaches Tomorrow....**

\*credit to Nrichmaths.org



A little monkey had 60 peaches.

On the **first** day he decided to keep  $\frac{3}{4}$  of his peaches.  
He gave the rest away. Then he ate one.

On the **second** day he decided to keep  $\frac{7}{11}$  of his peaches.  
He gave the rest away. Then he ate one.

On the **third** day he decided to keep  $\frac{5}{9}$  of his peaches.  
He gave the rest away. Then he ate one.

On the **fourth** day he decided to keep  $\frac{2}{7}$  of his peaches.  
He gave the rest away. Then he ate one.

On the **fifth** day he decided to keep  $\frac{2}{3}$  of his peaches.  
He gave the rest away. Then he ate one.

***How many did he have left at the end?***