



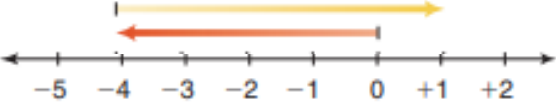
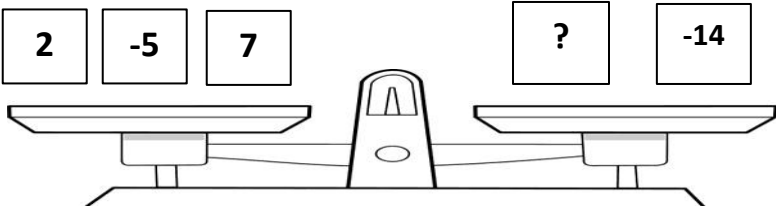


Island Numeracy Network Assessment

Grade 7+: Number Sense B

Integers and Equation Solving

<p>1</p>	<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) $8\,848 - 400$ b) $8\,848 + (-400)$ c) $400 - 8\,848$ d) $8\,848 - (-400)$</p> 	<p>d</p>
<p>2</p>	<p>Each set of algebra tiles models (+5)</p> <p>Write the equation being modeled for Set B and Set C</p> <p>Set A </p> <p>Set B  <input type="text"/></p> <p>Set C  <input type="text"/></p>	<p>$6 + (-1) = 5$</p> <p>$11 + (-6) = 5$</p>
<p>3</p>	<p>Order the integer values from greatest to least.</p> <p>{8, +10, -11, 0, -5, 4, 1}</p>	<p>+10, 8, 4, 1, 0, -5, -11</p>
<p>4</p>	<p>Which addition equation does the number line model?</p>  <p>Describe a situation that the number line could represent.</p>	<p>MMS Grade 7</p> <p>$(-4) + 5 = 1$</p> <p>The temperature dropped to -4 and then rose 5 degrees</p> <p>Etc.</p>

<p>5</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>AT ST NT NT</p>
<p>6</p>	<p>A friend simplifies the expression $(-2) \times 5 - (-5)$ and tells you it is (-15). You don't agree.</p> <p>Where did your friend go wrong?</p> <p>What is the correct answer?</p>	<p>Your friend forgot if you subtract a negative integer, you add the opposite integer</p> <p>-5</p>
<p>7</p>	<p>Identify two integers with a sum of -1 and a difference of 5.</p>	<p>$-3, 2$</p>
<p>8</p>	<p>Which integer will balance the values?</p> 	<p>-18</p>
<p>9</p>	<p>Simplify $6^2 \div 2(-3) - (-4)$</p>	<p>50</p>
<p>10</p>	<p>Write an equation that includes four integers, three different operations and equals (-10).</p>	<p>Answers vary.</p>
<p>11</p>	<p>You have a thermometer to record the highest and lowest temperatures.</p> <p>On Sunday the temperature started at 4°C. Overnight the temperature fell by 5°. Monday it rose by 6°. Monday night it fell by 10°. On Tuesday it rose by 4° and fell by 2° overnight.</p> <p>What is the minimum and maximum temperature you record?</p> <p>Source (nRich - https://nrich.maths.org/6262)</p>	<p>Wednesday morning the maximum recorded temperature was 5° and the minimum was -5°</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?

One left