



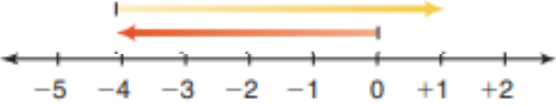
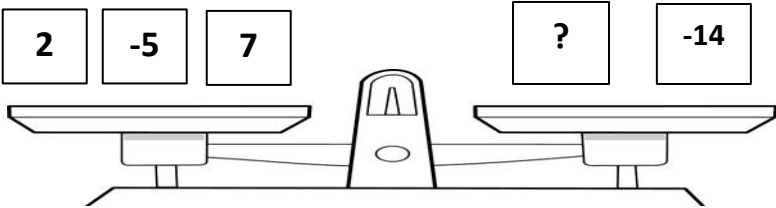


Island Numeracy Network Assessment

Grade 7+: Number Sense B

Integers and Equation Solving

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|-----------------|---|---|
| <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</p>  <div style="border: 1px solid black; width: 200px; height: 20px; margin-left: 100px;"></div> <p>Set C</p>  <div style="border: 1px solid black; width: 200px; height: 20px; margin-left: 100px;"></div> | <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