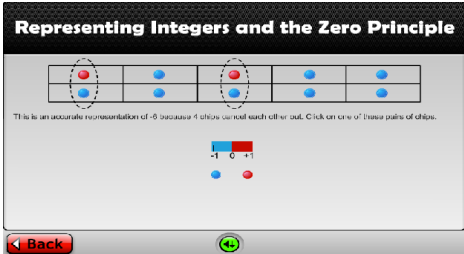
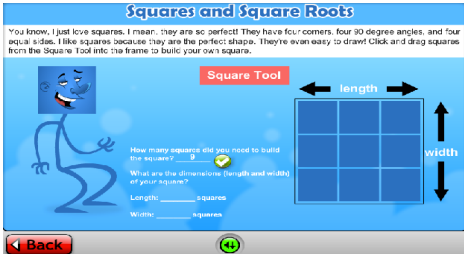


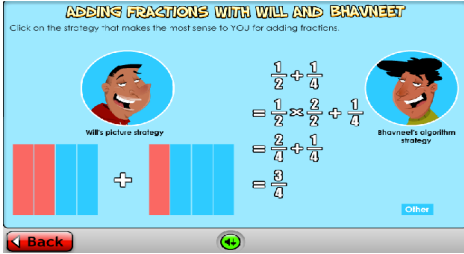
# Grade 7 Number Sense and Numeration Ontario Educational Resources Bank (OERB) Activities

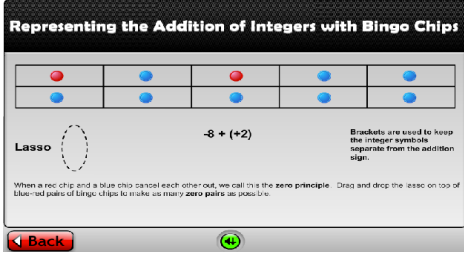
## Quantity Relationships

Activity	Description
<p style="text-align: center;"><b>Representing Integers and the Zero Principle</b></p>  <p style="text-align: center;"><b>Resource ID: ELO1414350</b></p>	<p>Build understanding of integers and the zero principle (two opposite integers combined have a value of zero) by representing integers using two colours of counters and identifying zero pairs.</p>

<p style="text-align: center;"><b>Squares and Square Roots</b></p>  <p style="text-align: center;"><b>Resource ID: ELO1414400</b></p>	<p>Build understanding of squares and square roots by constructing geometric squares out of unit squares and noting the relationships between the dimensions of the new square and the number of unit squares used. Practise evaluating squares and perfect square roots.</p>
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## Operational Sense: Addition of Fractions and Integers

Activity	Description
<p style="text-align: center;"><b>Adding Fractions</b></p>  <p style="text-align: center;"><b>Resource ID: ELO1414340</b></p>	<p>Build understanding of adding fractions by viewing demonstrations of how to add fractions with the lowest common denominator using both pictures and the standard algorithm.</p>

<p style="text-align: center;"><b>Representing the Addition of Integers with Bingo Chips</b></p>  <p style="text-align: center;"><b>Resource ID: ELO1414360</b></p>	<p>Build understanding of adding integers by modelling integer addition using a virtual manipulative tool involving coloured counters.</p>
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Ontario Educational Resources Bank (OERB) Activities

Proportional Relationships

Activity

Description

How Many Balloons?

How Many **BALLOONS?**

A ratio (r/c) compares numbers with:  
- 0 if the 0 units can't be expressed as a rate.  
- 1 when it is a comparison between two numbers with different units.

ratio  
7 : 1

rate =  $\frac{7}{1}$  grams  
1 balloon

Drag and drop the numbers from the ratio to create a rate that compares how many grams can be lifted per balloon.

Back Next

Resource ID: ELO1414330

Build understanding of ratio and rate by describing how many balloons are needed to carry a certain mass and vice versa, when given what mass helium balloons are able to lift.

Rate My Groceries

Correct. Click Next to find the unit rate for the Logged milk.

Milk \$4.29 / 4 L

Milk \$2.99 / 1 L

Back Next

Resource ID: ELO1414380

Build understanding of unit rates by solving grocery store problems that involve determining and comparing unit rates to identify the better buy.

