

Institute for Humane Education
Grades: 6, 7, 8
States: Common Core State Standards
Subjects: Mathematics

Common Core State Standards
Mathematics
Grade 6 - Adopted 2010

STRAND / DOMAIN	CCSS.Math.Practice	Mathematical Practices
CATEGORY / CLUSTER	CCSS.Math.Practice.MP5	<p>Use appropriate tools strategically.</p> <p>Hear the People This is a great icebreaker for any activity exploring the challenges and impacts surrounding our enormous and growing human population.</p> <p>Too Many Kittens Use this activity to help students practice their Algebra skills while learning about dog and cat overpopulation and exploring how spaying and neutering can contribute to the solution.</p> <p>Vanishing Rainforests Use this activity to help students practice their math skills while gaining a real sense of how much rainforest is being destroyed and brainstorming what they can do to avoid contributing to rainforest destruction.</p>
CATEGORY / CLUSTER	CCSS.Math.Practice.MP6	<p>Attend to precision.</p> <p>Hear the People This is a great icebreaker for any activity exploring the challenges and impacts surrounding our enormous and growing human population.</p> <p>Too Many Kittens Use this activity to help students practice their Algebra skills while learning about dog and cat overpopulation and exploring how spaying and neutering can contribute to the solution.</p> <p>Vanishing Rainforests Use this activity to help students practice their math skills while gaining a real sense of how much rainforest is being destroyed and brainstorming what they can do to avoid contributing to rainforest destruction.</p>
CATEGORY / CLUSTER	CCSS.Math.Practice.MP8	<p>Look for and express regularity in repeated reasoning.</p> <p>Hear the People This is a great icebreaker for any activity exploring the challenges and impacts surrounding our enormous and growing human population.</p> <p>Too Many Kittens Use this activity to help students practice their Algebra skills while learning about dog and cat overpopulation and exploring how spaying and neutering can contribute to the solution.</p> <p>Vanishing Rainforests Use this activity to help students practice their math skills while gaining a real sense of how much rainforest is being destroyed and brainstorming what they can do to avoid contributing to rainforest destruction.</p>
STRAND / DOMAIN	CCSS.Math.Content.6.EE	Expressions and Equations
CATEGORY / CLUSTER	CCSS.Math.Content.6.EE.B	Reason about and solve one-variable equations and inequalities.
STANDARD	CCSS.Math.Content.6.EE.B.6	<p>Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.</p> <p>Too Many Kittens Use this activity to help students practice their Algebra skills while learning about dog and cat overpopulation and exploring how spaying and neutering can contribute to the solution.</p>
STRAND / DOMAIN	CCSS.Math.Content.6.EE	Expressions and Equations
CATEGORY	CCSS.Math.Content.6.EE.C	Represent and analyze quantitative relationships between

/ CLUSTER		dependent and independent variables.
STANDARD	CCSS.Math.Content.6.EE.C.9	<p>Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables, and relate these to the equation. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation $d = 65t$ to represent the relationship between distance and time.</p> <p>Too Many Kittens Use this activity to help students practice their Algebra skills while learning about dog and cat overpopulation and exploring how spaying and neutering can contribute to the solution.</p>

Common Core State Standards

Mathematics

Grade 7 - Adopted 2010

STRAND / DOMAIN	CCSS.Math.Practice	Mathematical Practices
CATEGORY / CLUSTER	CCSS.Math.Practice.MP5	<p>Use appropriate tools strategically.</p> <p>Hear the People This is a great icebreaker for any activity exploring the challenges and impacts surrounding our enormous and growing human population.</p> <p>Too Many Kittens Use this activity to help students practice their Algebra skills while learning about dog and cat overpopulation and exploring how spaying and neutering can contribute to the solution.</p> <p>Vanishing Rainforests Use this activity to help students practice their math skills while gaining a real sense of how much rainforest is being destroyed and brainstorming what they can do to avoid contributing to rainforest destruction.</p>
CATEGORY / CLUSTER	CCSS.Math.Practice.MP6	<p>Attend to precision.</p> <p>Hear the People This is a great icebreaker for any activity exploring the challenges and impacts surrounding our enormous and growing human population.</p> <p>Too Many Kittens Use this activity to help students practice their Algebra skills while learning about dog and cat overpopulation and exploring how spaying and neutering can contribute to the solution.</p> <p>Vanishing Rainforests Use this activity to help students practice their math skills while gaining a real sense of how much rainforest is being destroyed and brainstorming what they can do to avoid contributing to rainforest destruction.</p>
CATEGORY / CLUSTER	CCSS.Math.Practice.MP8	<p>Look for and express regularity in repeated reasoning.</p> <p>Hear the People This is a great icebreaker for any activity exploring the challenges and impacts surrounding our enormous and growing human population.</p> <p>Too Many Kittens Use this activity to help students practice their Algebra skills while learning about dog and cat overpopulation and exploring how spaying and neutering can contribute to the solution.</p> <p>Vanishing Rainforests Use this activity to help students practice their math skills while gaining a real sense of how much rainforest is being destroyed and brainstorming what they can do to avoid contributing to rainforest destruction.</p>
STRAND / DOMAIN	CCSS.Math.Content.7.RP	Ratios and Proportional Relationships
CATEGORY /	CCSS.Math.Content.7.RP.A	Analyze proportional relationships and use them to solve real-

CLUSTER		world and mathematical problems.
STANDARD	CCSS.Math.Content.7.RP.A.2	Recognize and represent proportional relationships between quantities.
EXPECTATION	CCSS.Math.Content.7.RP.A.2c	<p>Represent proportional relationships by equations. For example, if total cost t is proportional to the number n of items purchased at a constant price p, the relationship between the total cost and the number of items can be expressed as $t = pn$.</p> <p>Too Many Kittens Use this activity to help students practice their Algebra skills while learning about dog and cat overpopulation and exploring how spaying and neutering can contribute to the solution.</p>
STRAND / DOMAIN	CCSS.Math.Content.7.EE	Expressions and Equations
CATEGORY / CLUSTER	CCSS.Math.Content.7.EE.B	Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
STANDARD	CCSS.Math.Content.7.EE.B.4	Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.
EXPECTATION	CCSS.Math.Content.7.EE.B.4a	<p>Solve word problems leading to equations of the form $px + q = r$ and $p(x + q) = r$, where p, q, and r are specific rational numbers. Solve equations of these forms fluently. Compare an algebraic solution to an arithmetic solution, identifying the sequence of the operations used in each approach. For example, the perimeter of a rectangle is 54 cm. Its length is 6 cm. What is its width?</p> <p>Too Many Kittens Use this activity to help students practice their Algebra skills while learning about dog and cat overpopulation and exploring how spaying and neutering can contribute to the solution.</p>

Common Core State Standards

Mathematics

Grade 8 - Adopted 2010

STRAND / DOMAIN	CCSS.Math.Practice	Mathematical Practices
CATEGORY / CLUSTER	CCSS.Math.Practice.MP5	<p>Use appropriate tools strategically.</p> <p>Hear the People This is a great icebreaker for any activity exploring the challenges and impacts surrounding our enormous and growing human population.</p> <p>Too Many Kittens Use this activity to help students practice their Algebra skills while learning about dog and cat overpopulation and exploring how spaying and neutering can contribute to the solution.</p> <p>Vanishing Rainforests Use this activity to help students practice their math skills while gaining a real sense of how much rainforest is being destroyed and brainstorming what they can do to avoid contributing to rainforest destruction.</p>
CATEGORY / CLUSTER	CCSS.Math.Practice.MP6	<p>Attend to precision.</p> <p>Hear the People This is a great icebreaker for any activity exploring the challenges and impacts surrounding our enormous and growing human population.</p> <p>Too Many Kittens Use this activity to help students practice their Algebra skills while learning about dog and cat overpopulation and exploring how spaying and neutering can contribute to the solution.</p> <p>Vanishing Rainforests Use this activity to help students practice their math skills while gaining a real sense of how much rainforest is being destroyed and brainstorming what they can do to avoid contributing to rainforest destruction.</p>
CATEGORY / CLUSTER	CCSS.Math.Practice.MP8	<p>Look for and express regularity in repeated reasoning.</p> <p>Hear the People</p>

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STRAND / DOMAIN	CCSS.Math.Content.8.F	Functions
CATEGORY / CLUSTER	CCSS.Math.Content.8.F.B	Use functions to model relationships between quantities.
STANDARD	CCSS.Math.Content.8.F.B.4	<p>Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.</p> <p>Too Many Kittens Use this activity to help students practice their Algebra skills while learning about dog and cat overpopulation and exploring how spaying and neutering can contribute to the solution.</p>

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