

LET'S

COLLECT LAUHALA



STEMD² Research & Development Group
Center on Disability Studies
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<http://stemd2.com/>

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Ne'epapa Ka Hana Seventh-Grade Mathematics Resources

Let's Collect Lauhala
Student Activities

Preview Release

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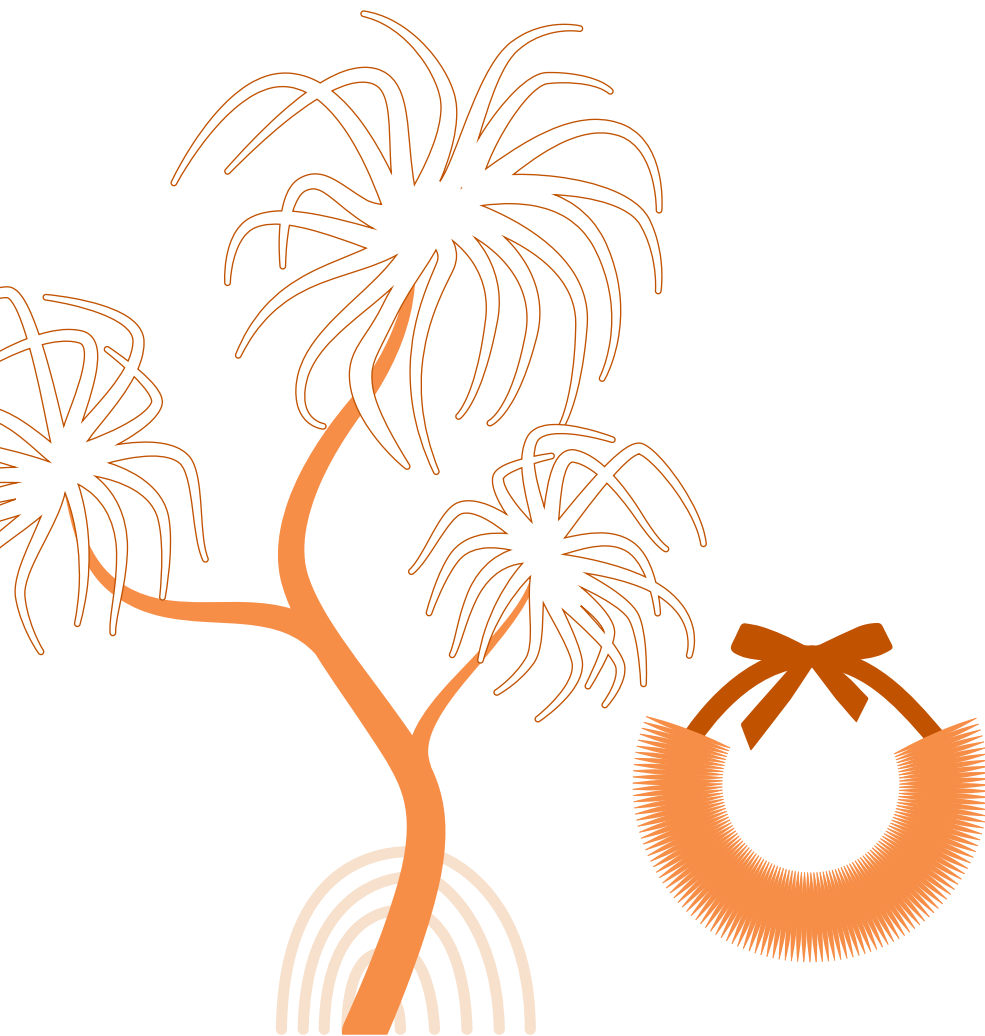
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Unit 1: The Number System

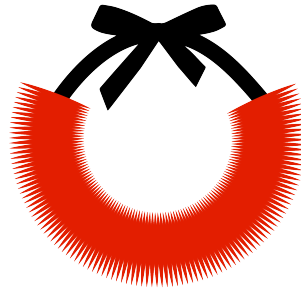


SBAC alignment for *Unit 1: The Number System Activity 1*

Claim(s)	Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.
Assessment Target(s):	1 A: Analyze proportional relationships and use them to solve real-world and mathematical problems.
Content Domain:	Ratios and Proportional Relationships
Standard(s):	7.RP.3 Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.
DOK:	2

Unit 1: The Number System Activity 1

Kaiwi is a hunter and during his last hunt he caught a number of invasive ducks. Kaiwi sells the duck feather for \$20 per bird. Many of Kaiwi's buyers use the feathers to make lei hulu (feather lei).



Lei hulu

Kaiwi also offers the following deal.

Buy 3 birds and get the 4th bird for 75% off.

Let's buy 4 birds using Kaiwi's deal. The sales tax in Hawai'i is 4%. How much money do you save by using the deal versus paying full price for the 4 birds? Show your work and justify your answer.

- (a) \$15.00
- (b) \$15.60
- (c) \$14.40
- (d) \$5.20

SBAC alignment for *Unit 1: The Number System Activity 2*

Claim(s)	<p>Claim 3: Communicating Reasoning (primary claim) Students can clearly and precisely construct viable arguments to support their own reasoning and to critique the reasoning of others.</p> <p>Claim 1: Concepts and Procedures (secondary claim) Students can explain and apply mathematical concepts and interpret and carry out mathematical procedures with precision and fluency.</p>
Assessment Target(s):	<p>3 A: Test propositions or conjectures with specific examples.</p> <p>1 D: Solve real-life and mathematical problems using numerical and algebraic expressions and equations.</p>
Content Domain:	<p>Expressions and Equations (primary domain)</p> <p>The Number System (secondary domain)</p>
Standard(s):	<p>7.EE.3 Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations as strategies to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies. For example: If a woman making \$25 an hour gets a 10% raise, she will make an additional $\frac{1}{10}$ of her salary an hour, or \$2.50, for a new salary of \$27.50. If you want to place a towel bar $9\frac{3}{4}$ inches long in the center of a door that is $27\frac{1}{2}$ inches wide, you will need to place the bar about 9 inches from each edge; this estimate can be used as a check on the exact computation.</p> <p>7.EE.1 Apply properties of operations as strategies to add, subtract, factor, and expand linear expressions with rational coefficients.</p> <p>7.NS.2 Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers.</p>
DOK:	3

