4th Grade News

Mrs. Cosgrove and Mrs. Berson January 2018

Reading Skill Focus

CCSS.ELA-Literacy.RI.4.3
Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text.
CCSS.ELA-Literacy.RL.4.5
Explain major differences between poems, drama, and prose, and refer to the structural elements of poems (e.g., verse, rhythm, meter) and drama (e.g., casts of characters, settings,

Current PYP Unit

Unit: How We Organize Ourselves

Central Idea: Human-made systems shape daily life.

Question to discuss with your child: What are the form and function of an electrical current?

Upcoming Events

At the end of our unit students will be completing an at-home project. Look for details to come home at the end of the month.

Math Standards and Strategies

During Unit 7, students will shift their thinking of using multiplication with arrays to looking at multiplication as a statement of comparison. Students will explore how values can be compared with multiplication as well as differentiate between additive and multiplicative comparisons. Students will use tape diagrams to help visualize the comparisons being made.

Important Concepts:

-Compare two amounts using multiplication.

-Use a tape diagram to solve problems involving multiplicative comparisons.

-Rounding multi-digit whole numbers to any place value.

-Compare measurement conversions to make comparisons of real life measurements in real life situations.

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SSES_grade4

Grade 4 Parent Newsletter

Theme 2 Unit 7

Dear Parents,

In 3rd grade students were introduced to multiplication as repeated addition and arrays. In Unit 4, students learned multi-digit multiplication strategies that are based on place value. In this unit, students will shift their thinking of using multiplication with arrays to looking at multiplication as a statement of comparison. Students will explore how values can be compared with multiplication as well as differentiate between additive and multiplicative comparisons. Students will use tape diagrams to help visualize the comparisons being made.

Thank you for your support,

Your Child's 4th Grade Teacher

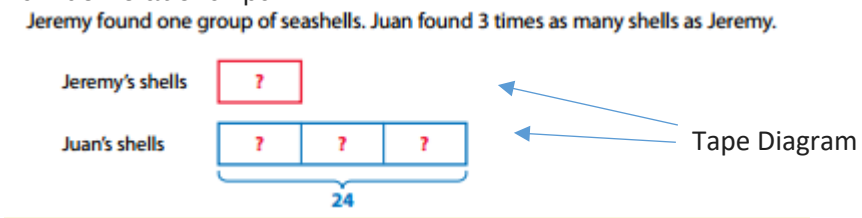
Vocabulary:

Unknown: the value you need to find to solve a problem

Symbol: a character, such as a letter or question mark, that can be used to stand for an unknown number in an equation

Multiplicative Comparison: used to show that one quantity is a certain number of times larger than another quantity and answers how many times as much or how many times as many there is of one thing compared to another.

Tape Diagram: a visual model that uses rectangles to illustrate number relationships



Rounding: to approximate the value of a number by finding the nearest ten, hundred, or other place value

How can you help your child be successful in mathematics?

Important Concepts:

-Compare two amounts using multiplication.

-Use a tape diagram to solve problems involving multiplicative comparisons.

-Rounding multi-digit whole numbers to any place value.

-Compare measurement conversions to make comparisons of real life measurements in real life situations.

Misconceptions:

- Students may have difficulty differentiating between multiplicative and additive comparisons.

- Students may use a "rule" for rounding, rather than focusing on the reasonableness of their solution.

-Students may have difficulty recognizing the need for common units when comparing with measurement.

Things to Do:

- Review multiplication and division facts. Rather than say, "What is 4 x 5?" rephrase your question and ask, 'What is 4 times as much as 5?"

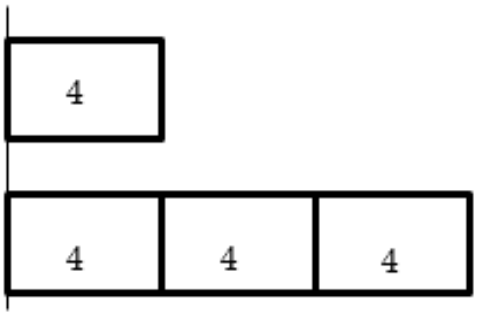
- Look for multi-digit whole numbers in newspaper or magazine articles and practice rounding to different place values.

Strategies to Support Student Learning

Multiplicative Comparison:

Tape Diagram

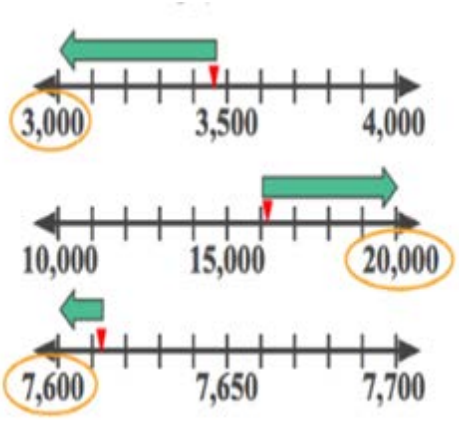
4x3=12



*Note: When using a tape model to make a comparison, both values should be represented. One bar representing the initial amount and a second bar representing the multiplied amount.

Rounding to any place value:

Number Lines

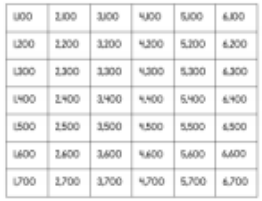


When using number lines to round, students should have a number on each end of their number line as well a number to represent the halfway point.

Games to Support Home-to-School Connection

4-digit

Roll and Round: Nearest Hundred



Materials: 4 number cubes (1-6), counters (2 different colors)

Number of Players: 2

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1. Take turns to roll four number cubes to create a four-digit number. You may place the number cubes in any order.

2. Round the number you create to the **nearest hundred**. Explain your thinking. Place a counter on the rounded number on the board. If the rounded number is already covered you must wait until your next turn.

3. Continue taking turns. The first player to have four adjacent counters on the board in a horizontal, vertical, or diagonal line wins the game.

Games to Support Home-School Connection

Roll and Round: Nearest Hundred

1,100	2,100	3,100	4,100	5,100	6,100
1,200	2,200	3,200	4,200	5,200	6,200
1,300	2,300	3,300	4,300	5,300	6,300
1,400	2,400	3,400	4,400	5,400	6,400
1,500	2,500	3,500	4,500	5,500	6,500
1,600	2,600	3,600	4,600	5,600	6,600
1,700	2,700	3,700	4,700	5,700	6,700

Real World Connections

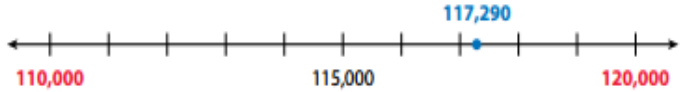
Multiplicative Comparisons

Hannah scored 3 goals last season. She scored 4 times as many goals this season. How many goals did Hannah score this season?

Rounding Multi-Digit Numbers on a Number Line

Last year, Tanaka's Toys spent $117,290 developing a new video game. This year, the company spent $175,000 on the game. Round the amounts spent to the nearest ten thousand. Then, find about how much more Tanaka's Toys spent on the game this year than last year.

Find the closest ten thousands that are less than 117,290 and greater than 117,290. 117,290 is between 110,000 and 120,000.



Using Different Operations to Solve Problems

Tina went to the store to buy three liters of orange juice for a party. The store only sold orange juice in 250 mL cartons. How many 250 mL cartons did Tina need to buy?

The cooler at a softball game holds 5 quarts of sports drink. How many cups of sports drink does the cooler hold?