

Fourth Grade Mathematics Newsletter

Marking Period 2, Part 1

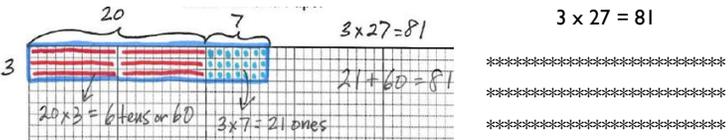
| MT | Learning Goals by Measurement Topic (MT) <i>Students will be able to . . .</i> |
|-----------------------------------|--|
| Number and Operations in Base Ten | <ul style="list-style-type: none"> multiply a whole number (up to four digits) by a one-digit whole number using various strategies. illustrate and explain multiplication calculations by using equations, rectangular arrays, and/or area models. |
| Measurement and Data | <ul style="list-style-type: none"> find the area and perimeter of rectangles by using formulas. describe the relationship among larger and smaller units within the metric system of measurement. describe the relationship among larger and smaller units within the customary systems of measurement. convert (change) from larger to smaller units within a measurement system. solve word problems involving conversion of measurements. |

It is essential for students in Grade 4 math to be fluent with basic multiplication and division facts, 0 - 10.

| Thinking and Academic Success Skills (TASS) | | |
|---|---|---|
| | <u>It is . . .</u> | <u>In mathematics, students will . . .</u> |
| Elaboration | adding details that expand, enrich, or embellish. | <ul style="list-style-type: none"> add to knowledge of measurement by converting units within the metric and customary system. Expand on prior knowledge of measurement to better understand the relationship between different units within the metric and customary system. |
| Effort/Motivation/ Persistence | working diligently and applying effective strategies to achieve a goal or solve a problem; continuing in the face of obstacles and competing pressures. | <ul style="list-style-type: none"> solve challenging multiplication problems using various strategies that promote a thorough understanding of multiplication. select manipulatives and aids to solve multiplication problems when having difficulties. |

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| Learning Experiences by Measurement Topic (MT) | | | | | | | | | |
|--|---|--|---------------|----|---|---|----|---|---|
| MT |  <u>In school, your child will . . .</u> |  <u>At home, your child can . . .</u> | | | | | | | |
| Number and Operations in Base Ten | <ul style="list-style-type: none"> multiply whole numbers using partial-product multiplication, area models, and rectangular arrays. <p><u>Partial Products Example:</u> $3 \times 27 = (3 \times 20) + (3 \times 7) = 81$</p>  | <ul style="list-style-type: none"> practice multiplication and division facts from 0 – 10. practice math facts without using paper and pencil (e.g. How many eggs are in 3 dozen?). share strategies from school (area model, rectangular array, etc.) for solving a multiplication problem and practice them. Explain the difference between the strategies. | | | | | | | |
| | <ul style="list-style-type: none"> investigate the most efficient formula to determine the perimeter and area of rectangles using the attributes of a rectangle. <p><u>Example:</u> P (perimeter)= $2 \times l$ (length) + $2 \times w$ (width) A (area) = b (base) \times h (height) <ul style="list-style-type: none"> use a table to record a rule for converting units of measurement <table border="1" data-bbox="321 1000 825 1162"> <thead> <tr> <th><i>Feet</i></th> <th><i>Inches</i></th> </tr> </thead> <tbody> <tr> <td>10</td> <td>?</td> </tr> <tr> <td>?</td> <td>84</td> </tr> <tr> <td>6</td> <td>?</td> </tr> </tbody> </table> </p> | <i>Feet</i> | <i>Inches</i> | 10 | ? | ? | 84 | 6 | ? |
| <i>Feet</i> | <i>Inches</i> | | | | | | | | |
| 10 | ? | | | | | | | | |
| ? | 84 | | | | | | | | |
| 6 | ? | | | | | | | | |
| Glossary | <p>area: the number of square units needed to cover a closed region.</p> <p>customary system of measurement: standard unit of measurement used in the United States. (e.g. inches-in., feet-ft., yard-yd. etc.)</p> <p>formula: a rule or procedure that works in every case.</p> <p>metric system of measurement: units of measure using the base-ten system. (e.g. centimeter-cm., meter-m., kilometer-km., etc.)</p> <p>perimeter: the total distance around an enclosed shape.</p> | | | | | | | | |

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