**Unit 6 Review**

**Measure and Estimate Lengths in Standard Units**

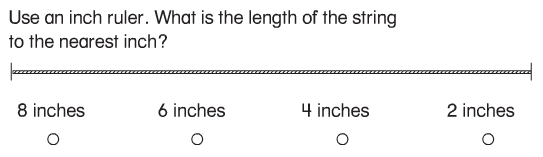
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| **MAFS.2.MD.1.1** Measure the length of an object to the nearest inch, foot, centimeter, or meter by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes. |

1. Bob measured this pencil using a centimeter ruler. What is the length of the pencil?



\_\_\_\_\_\_\_\_ centimeters

1. Use an inch ruler. What is the length of the string to the nearest inch?



\_\_\_\_\_\_\_\_ inches

1. Use an inch ruler. What is the length of the lipstick to the nearest inch?



\_\_\_\_\_\_\_\_ inches

1. Which tool would you use to measure the length of a computer keyboard?

**Circle all that apply.**

inch ruler meter stick centimeter ruler yardstick

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| **MAFS.2.MD.1.2** Describe the inverse relationship between the size of a unit and number of units needed to measure a given object. |

1. Your teacher wants you to measure the length of the book case with one-foot rulers. Then, she wants you to measure the length of the book case with yardsticks instead of rulers.

**Will you need more or fewer yardsticks than rulers to do the job? Explain your answer.**

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| **MAFS.2.MD.1.3** Estimate lengths using units of inches, feet, yards, centimeters, and meters. |

1. The wrench is about 4 centimeter long.



Which is the **best** estimate for the length of the comb.

* 7 centimeters
* 4 centimeters
* 3 centimeters
* 9 centimeters

1. Which is the best estimate for the length of a real baseball bat?

* 1 foot
* 14 feet
* 8 feet
* 3 feet

1. Kate measures the length of her pencil. Circle the **best** choice for the lengths of her pencil.

1 centimeter 10 centimeters 1 meter 10 meters

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| **MAFS.2.MD.1.4** Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit. |

1. Use a centimeter ruler to measure to the nearest centimeter. How much longer is the feather than the stick?



* About 17 to 18 centimeters longer
* About 10 to 11 centimeters longer
* About 6 to 7 centimeters longer
* About 3 to 4 centimeters longer

1. Measure and write the length of each object to the nearest centimeter.



\_\_\_\_\_\_\_\_ centimeters

\_\_\_\_\_\_\_\_ centimeters

How much longer is the marker than the caterpillar? \_\_\_\_\_\_\_\_\_ centimeters

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| **MAFS.2.MD.2.5** Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown number to represent the problem. |

1. In P.E. class Chris jumped 13 inches. Mary jumped 22 inches. Together, how far did both girls jump?

**Write an equation that represents this problem. Use a symbol for the unknown number. Solve the problem and use words, numbers or pictures to explain your reasoning.**

1. The taylor measured some fabric for a suit. Then, he measured 10 more feet of fabric. Now he has 45 feet of fabric. How many feet of fabric did the taylor measure before?

**Write an equation that represents this problem. Use a symbol for the unknown number. Solve the problem and use words, numbers or pictures to explain your reasoning.**

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| **MAFS.2.MD.2.6** Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2, ..., and represent whole-number sums and differences within 100 on a number line diagram. |

1. The 2nd graders had a hopping contest. Warren jumped 38 inches. Aayushi jumped 55 inches. How much farther did Aayushi jump than Warren?

**Use a number line below to show your thinking.**

1. Anderson has a piece of string that is 58 centimeters long. He cuts off 24 centimeters from the string. How long is his string now?

**Use a number line below to show your thinking.**

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| **MAFS.2.MD.4.9** Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole number units. |

15-17. Hunter measured a handful of ribbons to the nearest inch. He wrote down each ribbon’s measurement in a table.

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| **Hunter’s Ribbon Measurements** | | | | | | | | | |
| **5** | **5** | **5** | **3** | **3** | **4** | **1** | **4** | **2** | **1** |

1. Make a line plot to represent the data.



1 2 3 4 5 6

1. How many pieces of string did Hunter measure? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. How much longer in inches is the longest piece of string compared to the shortest piece of string?

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