

4.MD.A.1 Measures of Lengths

4.MD.A.1: Know relative sizes of measurement units within one system of units

1. Find the length of each of the following to the nearest $\frac{1}{2}$ inch.



Solution:



Solution:



Solution:

2. Choose the most appropriate unit of measurement to be used in the following.

Write in (inches), ft (feet), yd (yards), or mi (miles).

- a. length of a football field _____ c. length of a phone _____
b. length of a volleyball court _____ d. distance between two countries _____

3. Order the measurement from least to greatest.

- a. 2 in, $3\frac{3}{4}$ in, 3 in. b. $4\frac{3}{4}$ in, $5\frac{1}{2}$ in, 4 in c. 1 yd, 12 in, 20 in

Solution:

Solution:

Solution:

4. Use a ruler and draw a line for each length.

- a. 2 in.

- b. $3\frac{3}{4}$ in.

- c. $4\frac{1}{2}$ in.

5. Bob measured the length of a notebook to the nearest $\frac{1}{2}$ inch and Jessica measured the same notebook to the nearest quarter inch. Whose measurement is more accurate? Explain.

Solution:

4.MD.A.1 Measures of Lengths

Answer Key

4.MD.A.1: Know relative sizes of measurement units within one system of units

- Find the length of each of the following to the nearest $\frac{1}{2}$ inch.



Solution:

- Answer may vary based on the print size of the worksheet.

- Choose the most appropriate unit of measurement to be used in the following.

Write in (inches), ft (feet), yd (yards), or mi (miles).

- length of a football field yd
- length of a volleyball court ft
- length of a phone in
- distance between two countries mi

- Order the measurement from least to greatest.

a. 2 in, 3 $\frac{3}{4}$ in, 3 in.

b. 4 $\frac{3}{4}$ in, 5 $\frac{1}{2}$ in, 4 in

c. 1 yd, 12 in, 20 in

2 in, 3 in, 3 $\frac{3}{4}$ in

4 in, 4 $\frac{3}{4}$ in, 5 $\frac{1}{2}$ in

12 in, 20 in 1 yd.

- Use a ruler and draw a line for each length.

a. 2 in.



b. 3 $\frac{3}{4}$ in.



c. 4 $\frac{1}{2}$ in.



- Bob measured the length of a notebook to the nearest $\frac{1}{2}$ inch and Jessica measured the same notebook to the nearest quarter inch. Whose measurement is more accurate? Explain.

Measuring the notebook to the nearest quarter will lead to a more accurate length. If measurements are done using the smaller units, then it is likely to be more accurate.