

Measuring Distance - Set 1

MD 1

- 1 Measure the pen's length to the nearest sixteenth of an inch. Express the answer as a mixed number.

$$5\frac{7}{16} \text{ in}$$

- 2 Measure the pen's length to the nearest tenth of a centimeter. Express the answer as a decimal.

$$13.8 \text{ cm}$$

- 3 Measure the hoe's length to the nearest eighth of an inch. Express the answer as a mixed number.

$$62\frac{3}{8} \text{ in}$$

- 4 Measure the hoe's length to the nearest tenth of a centimeter. Express the answer as a decimal.

$$158.4 \text{ cm}$$

- 5 Measure the key's length to the nearest half of an inch. Express the answer as a mixed number.

$$2\frac{1}{2} \text{ in}$$

- 6 Measure the key's length to the nearest millimeter. Express the answer as a whole number.

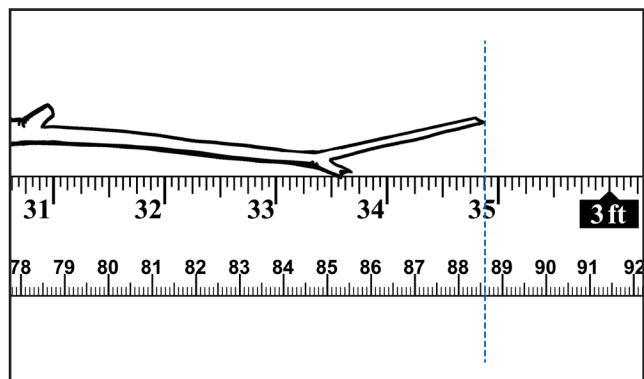
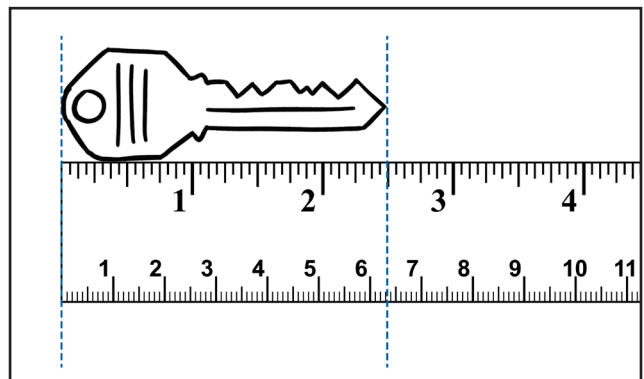
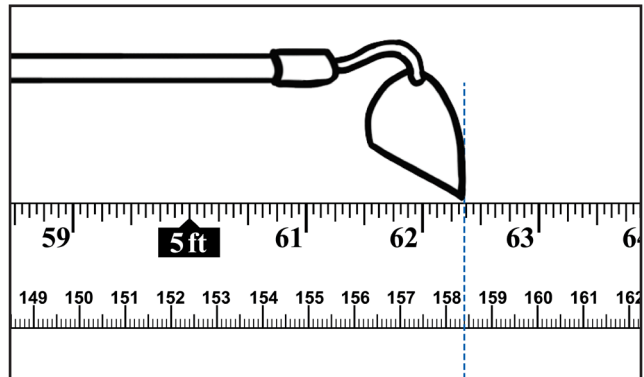
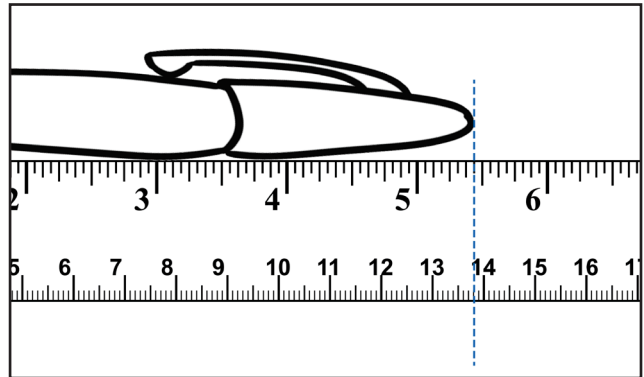
$$63 \text{ mm}$$

- 7 Measure the stick's length to the nearest eighth of an inch. Express the answer as a mixed number.

$$34\frac{7}{8} \text{ in}$$

- 8 Measure the stick's length to the nearest tenth of a centimeter. Express the answer as a decimal.

$$88.6 \text{ cm}$$



Measuring Distance - Set 2

MD 2

- 1 Measure the skateboard's length to the nearest sixteenth of an inch. Express the answer as a mixed number.

$$22 \frac{5}{16} \text{ in}$$

- 2 Measure the skateboard's length to the nearest tenth of a centimeter. Express the answer as a decimal.

$$56.7 \text{ cm}$$

- 3 Measure the flashlight's length to the nearest sixteenth of an inch. Express the answer as a mixed number.

$$9 \frac{3}{16} \text{ in}$$

- 4 Measure the flashlight's length to the nearest tenth of a centimeter. Express the answer as a decimal.

$$23.4 \text{ cm}$$

- 5 Measure the screwdriver's length to the nearest quarter inch. Express the answer as a mixed number.

$$6 \frac{3}{4} \text{ in}$$

- 6 Measure the screwdriver's length to the nearest tenth of a centimeter. Express the answer as a decimal.

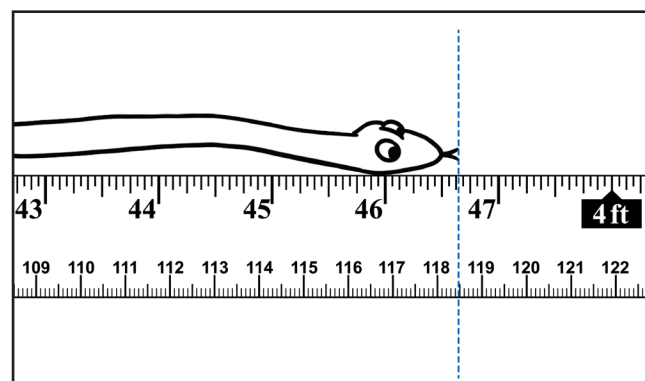
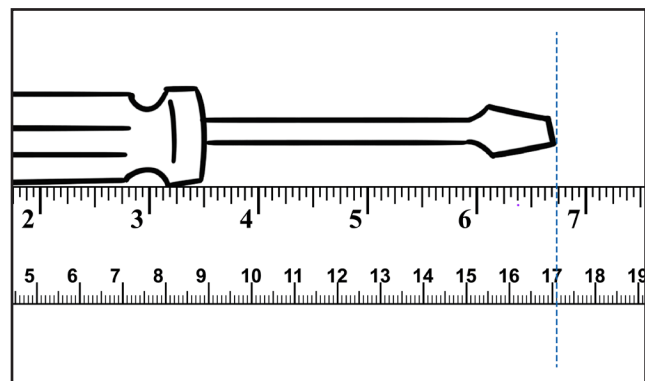
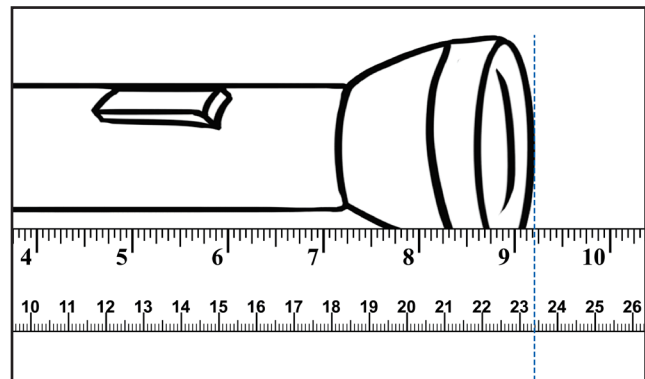
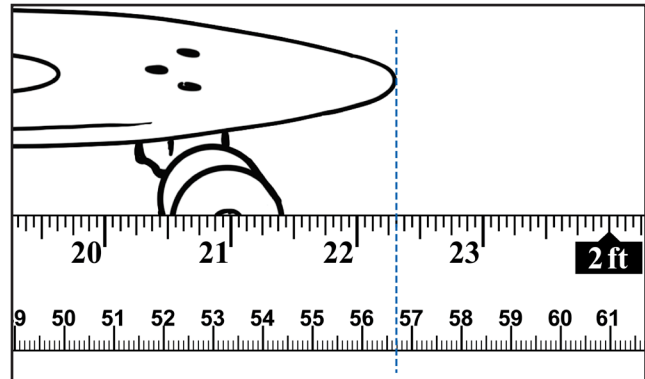
$$17.1 \text{ cm}$$

- 7 Measure the snake's length to the nearest eighth of an inch. Express the answer as a mixed number.

$$46 \frac{5}{8} \text{ in}$$

- 8 Measure the snake's length to the nearest half centimeter. Express the answer as a decimal.

$$118.5 \text{ cm}$$



Measuring Distance - Set 3

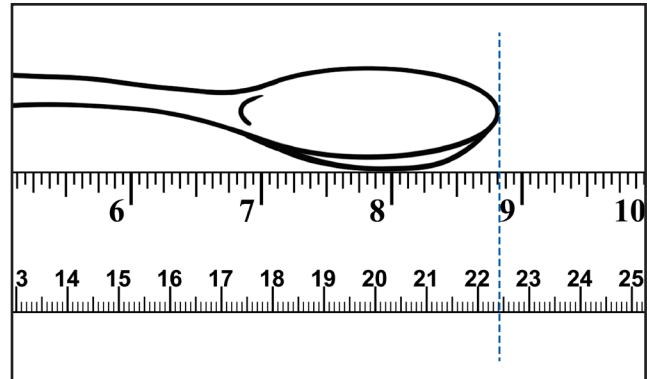
MD 3

- 1 Measure the spoon's length to the nearest sixteenth of an inch. Express the answer as a mixed number.

$$8\frac{13}{16} \text{ in}$$

- 2 Measure the spoon's length to the nearest tenth of a centimeter. Express the answer as a decimal.

$$22.4 \text{ cm}$$

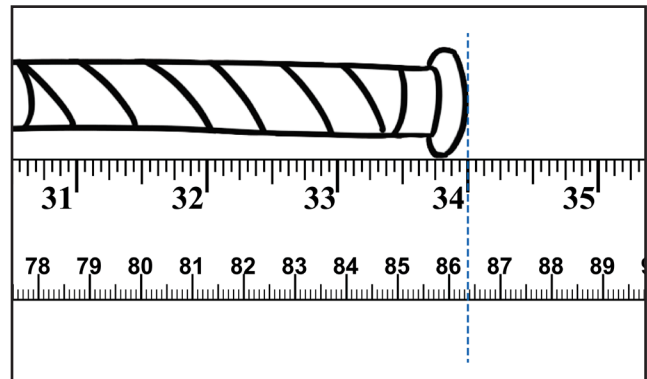


- 3 Measure the baseball bat's length to the nearest inch. Express the answer as a whole number.

$$34 \text{ in}$$

- 4 Measure the baseball bat's length to the nearest tenth of a centimeter. Express the answer as a decimal.

$$86.4 \text{ cm}$$

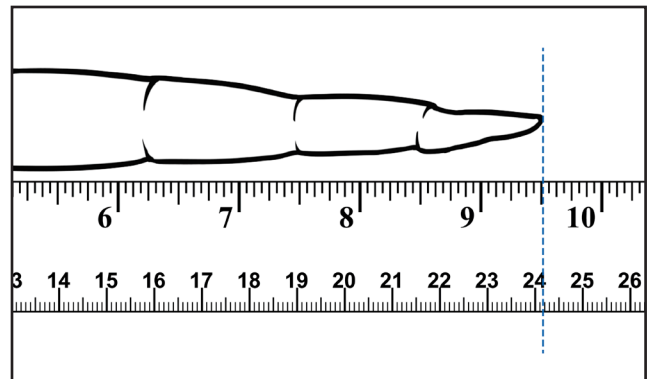


- 5 Measure the carrot's length to the nearest eighth of an inch. Express the answer as a mixed number.

$$9\frac{4}{8} \text{ in or } 9\frac{1}{2} \text{ in}$$

- 6 Measure the carrot's length to the nearest tenth of a centimeter. Express the answer as a decimal.

$$24.2 \text{ cm}$$

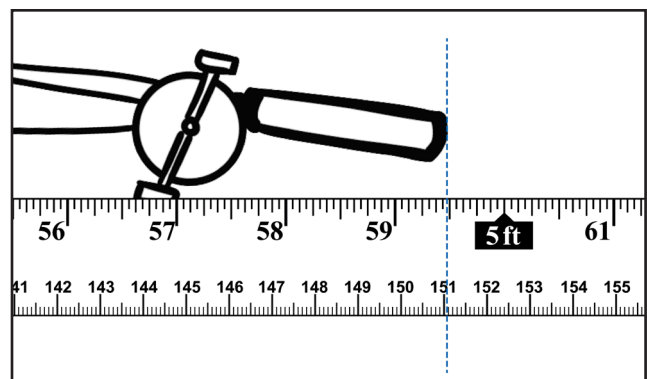


- 7 Measure the fishing pole's length to the nearest half inch. Express the answer as a mixed number.

$$59\frac{1}{2} \text{ in}$$

- 8 Measure the fishing pole's length to the nearest centimeter. Express the answer as a whole number.

$$151 \text{ cm}$$



Two Ways to Divide Inches

MD 4

- 1 Measure the pencil's length to the nearest eighth of an inch. Express the answer as a mixed number.

$$7 \frac{3}{8} \text{ in}$$

- 2 Measure the pencil's length to the nearest tenth of an inch. Express the answer as a decimal.

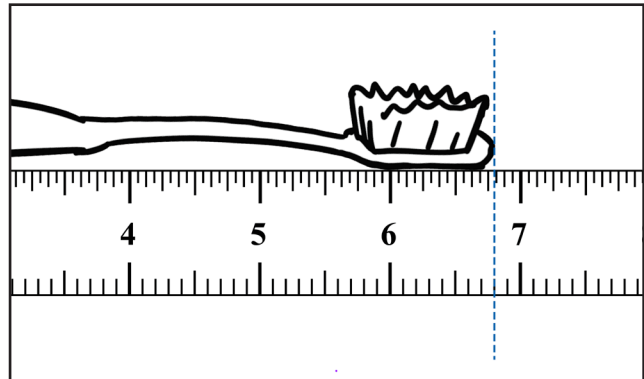
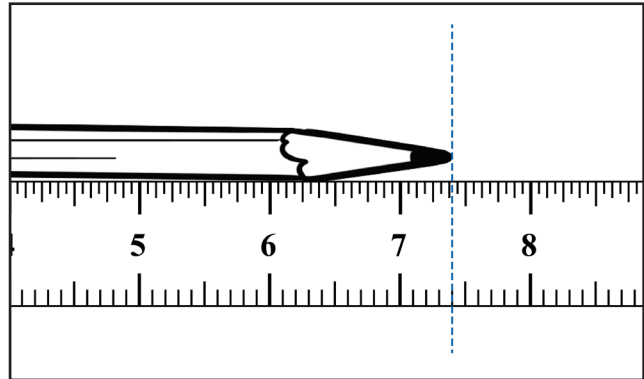
$$7.4 \text{ in}$$

- 3 Measure the toothbrush's length to the nearest sixteenth of an inch. Express the answer as a mixed number.

$$6 \frac{13}{16} \text{ in}$$

- 4 Measure the toothbrush's length to the nearest tenth of an inch. Express the answer as a decimal.

$$6.8 \text{ in}$$



Instructions: In the video, we learned that inches are sub-divided in two different ways: One is based on dividing by 10 and the other is based on dividing by 2. You can convert from a measurement that has fractions based on powers of 2 simply by dividing to get the equivalent decimal value, which is based on powers of 10. Use a calculator to convert these measurements.



5 $3 \frac{1}{8} \text{ in} = 3.125 \text{ in}$

$$1 \div 8 = 0.125$$

8 $9 \frac{5}{32} \text{ in} = 9.156 \text{ in}$

$$5 \div 32 = 0.15625$$

6 $15 \frac{5}{16} \text{ in} = 15.313 \text{ in}$

$$5 \div 16 = 0.3125$$

9 $10 \frac{7}{8} \text{ in} = 10.875 \text{ in}$

$$7 \div 8 = 0.875$$

7 $7 \frac{5}{8} \text{ in} = 7.625 \text{ in}$

$$5 \div 8 = 0.625$$

10 $1 \frac{1}{32} \text{ in} = 1.031 \text{ in}$

$$1 \div 32 = 0.03125$$