

1 Warm-up: Mental Math

2-min Fluency Warm-up — Solve in your head.

$16 - 9 = \underline{\hspace{2cm}}$

$7 + 7 = \underline{\hspace{2cm}}$

$11 - 6 = \underline{\hspace{2cm}}$

$8 + 5 = \underline{\hspace{2cm}}$

2 Measure Twice: Two Units

Measure each line *twice*: once in inches, once in centimeters.

 A.

Inches: Centimeters:

 B.

Inches: Centimeters:

 C.

Inches: Centimeters:

3 Number Talk: Why Different Numbers?

Number Talk — Explain **WITHOUT** measuring anything new.

When you measured line B, you got a **bigger number** in centimeters than in inches. But the line did not change!

Why is the cm number bigger?

My thinking:

Hint: think about which unit is smaller.

4 How Much Longer?

How much longer is the first object? Subtract to find out.

A rope is 45 cm long, and a stick is 28 cm long.

$45 - 28 = \underline{\hspace{2cm}} \text{ cm longer}$

A table is 60 inches long, and a chair is 34 inches long.

$60 - 34 = \underline{\hspace{2cm}} \text{ inches longer}$

A snake is 52 cm long, and a lizard is 19 cm long.

$52 - 19 = \underline{\hspace{2cm}} \text{ cm longer}$

A slide is 96 inches long, and a bench is 48 inches long.

$96 - 48 = \underline{\hspace{2cm}} \text{ inches longer}$

5 Challenge: Create Your Own

Create Your Own

Draw a line below that you think is **exactly 4 inches** long — no ruler while you draw! Then measure it. How close were you?

My line measured: _____ inches

How far off was I? _____