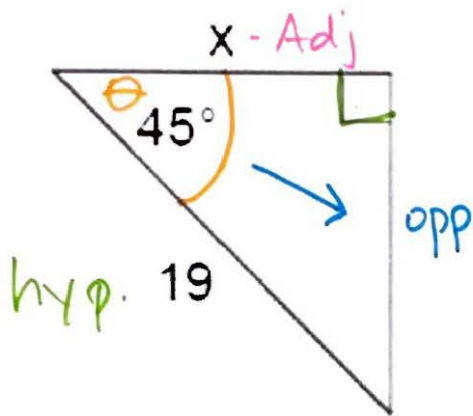


# Trig Ratios - Matching Cards

## Card 2



### Steps

- 1) Identify the side  
- Hypotenuse (opposite  $\frac{1}{2}$ )  
- Opposite of  $\theta$   
- Adjacent

$$\theta = 45^\circ$$

2) What measurements do we know?

We know

$$\text{hypotenuse} = 19$$

$$\theta = 45^\circ$$

We need to find **Adjacent = x**.

3) What trig ratios has **hypotenuse** and **Adjacent**

Remember...

SOH CAH TOA

$$\cos = \frac{\text{Adj}}{\text{Hyp}}$$

4) Set up the problem

$$\cos(\theta) = \frac{\text{Adj}}{\text{Hyp}}$$

$$\cos(45) = \frac{x}{19}$$

• find  $\cos(45)$  using Calc.  
 $\cos(45) = 0.707$

TURN

5) Simplify and Solve for X

$$\cos(45) = \frac{x}{19}$$

$$0.707 = \frac{x}{19}$$

Solve for X  
~ multiply both sides by

$$19 \cdot (0.707) = \frac{x}{19} \cdot 19$$

$$13.433 = x$$

6) Match  $x = 13.433$  with } Drag card A  
which is Card A,  $x = 13.4$  } next to Card 2

