• Parallel and perpendicular lines

Problem

Refer to the diagram to answer both questions.



Which line is parallel to line D?

- (A) Line A
- (B) Line B
- (C) Line C
- (D) Line E

Which line is perpendicular to line D?

- (A) Line A
- (B) Line B
- (C) Line C
- (D) Line E

## Problem 2

Refer to the diagram to answer both questions. Note that the end points of a line can be extended infinitely in opposite directions.



Which line is perpendicular to line A?

- (A) Line B
- (B) Line C
- (C) Line D
- (D) Line E

Which line is parallel to line C?

- (A) Line A
- (B) Line B
- (C) Line D
- (D) Line E

- Angles, parallel lines, and traversals
- Missing angles with a traversal

## Problem

Refer to the diagram to answer all 3 questions.



What is the measure of angle  $\mathbf{x}$ ?

- (A)  $180^{\circ}$
- (B)  $90^{\circ}$
- (C)  $108^{\circ}$
- (D)  $72^{\circ}$

What is the measure of angle  $\mathbf{y}$ ?

- (A) 180°
- (B) 90°
- (C)  $108^{\circ}$
- (D)  $72^{\circ}$

What is the measure of angle  $\mathbf{z}$ ?

- (A)  $180^{\circ}$
- (B)  $90^{\circ}$
- (C)  $108^{\circ}$
- (D)  $72^{\circ}$

• Using a protractor to measure angles

## Problem

Refer to the image when answering the questions.



What is the measure of the **orange angle**?

- (A)  $55^{\circ}$
- (B)  $145^{\circ}$
- (C)  $65^{\circ}$
- (D)  $125^{\circ}$

What is the measure of the **green angle**?

- (A)  $180^{\circ}$
- (B)  $70^{\circ}$
- (C)  $95^{\circ}$
- (D) 110°

• Solving for unknown angles

