

# Station 1

The map coordinates of a campground are  $(1, 4)$ , and the coordinates of a fishing pier are  $(4, 7)$ . Each unit on the map represents 1 kilometer. If Alejandro walks in a straight line from the campground to the pier, how many kilometers, to the nearest tenth, will he walk?

- A 3.5 kilometers       C 6.0 kilometers  
 B 4.2 kilometers       D 12.1 kilometers
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# Station 2

Lily conjectures that if a number is divisible by 15, then it is also divisible by 9. Which of the following is a counterexample?

- F 45       H 60  
 G 50       J 72
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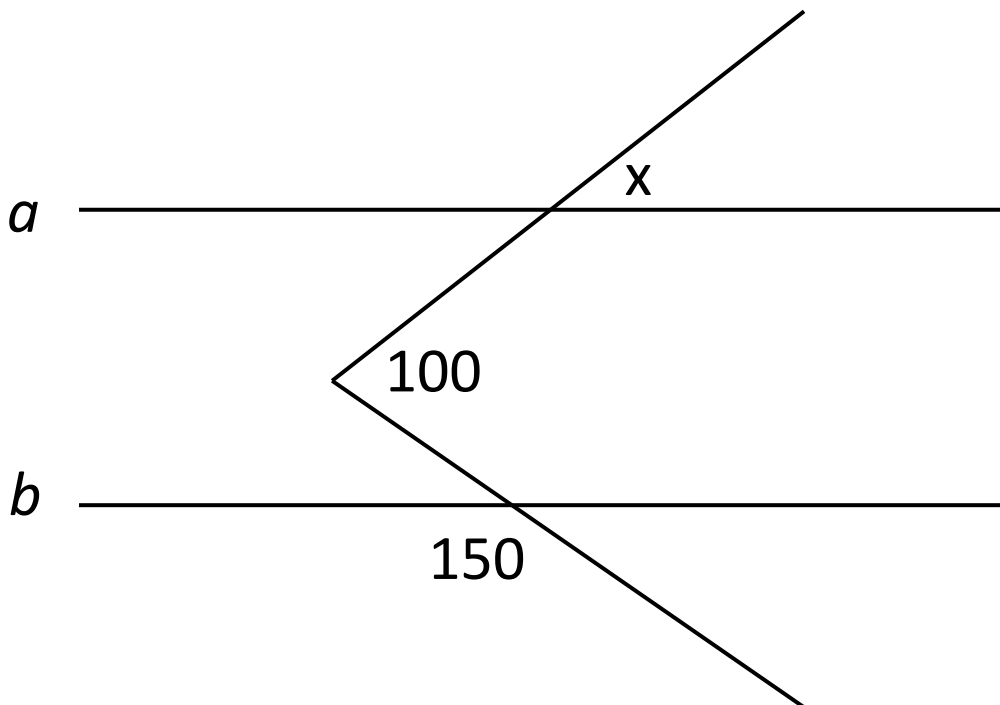
# Station 3

Miyoko went jogging on July 25, July 28, July 31, and August 3. If this pattern continues, when will Miyoko go jogging next?

- (A) August 5                      (C) August 7  
(B) August 6                      (D) August 8

# Station 4

Given  $a \parallel b$ . Find  $x$ .



# Station 5

For the given conditional statement, write the following statements and determine if it is true or false:

**Conditional Statement:** If two angles are supplementary, then they are congruent.

a) **Converse Statement:**

b) **Inverse Statement:**

c) **Contrapositive Statement:**

d) **Biconditional Statement:**

# Station 6

The measure of an angle is 6 more than twice the measure of the supplement. Find the measure of the supplement of the angle.

# Station 7

Given the following statements, what property do they justify?

- $94^\circ = 94^\circ$
- If  $\angle A$  is complementary to  $\angle B$  and  $\angle B \cong \angle C$ , then  $\angle C$  is complementary to  $\angle B$ .
- If  $\angle GEO \cong \angle ALG$  and  $\angle ALG \cong \angle MAT$ , then  $\angle GEO \cong \angle MAT$ .
- If  $\angle RED \cong \angle DEV$ , then  $\angle DEV \cong \angle RED$ .

# Station 8

**Law of Syllogism:** Decide if the conjecture is valid. If it is INVALID, write the correct conjecture.

**Given:** If Sally goes to bed early, then she will not get sick. If Sally eats an apple, then her mom will be happy. If her mom is happy, then Sally goes to bed early.

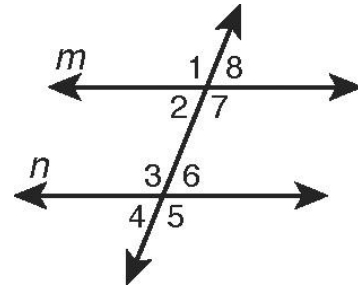
**Conjecture:** If Sally eats an apple, then she will not get sick.

Valid or Invalid?!

# Station 9

Using the diagram, name a pair of...

- a. Same Side Interior Angles
- b. Alternate Exterior Angles
- c. Corresponding Angles
- d. Vertical Angles



# Station 10

Are the lines parallel, perpendicular, or neither:

$$5x - 4y = 10 \text{ and } 5y = -4x + 6$$