Good morning!

- 1. "Here"
- 2. Introduction
- 3. Notes on Vocab
- 4. Angle Practice to CTLS
- 5. Homework on DeltaMath



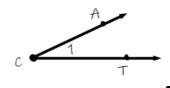
Important Symbols:



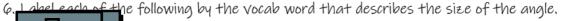
1. Two Rays sharing the same initial point form an angle.

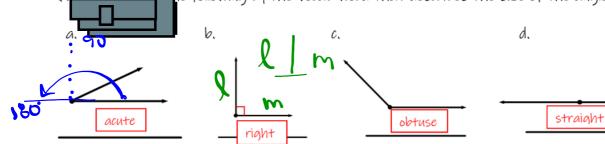


- The initial point where the rays meet is called the vertex of an angle.
- We can name the angle shown right four different ways:
 - ZACT
 - ZTCA
 - ∠C
 - ∠1



- Name the two rays: \overrightarrow{CA} and \overrightarrow{CT} .
- If multiple angles share a common vertex, we must use three letters or the number label to name the angle.
- 2. An angle with a measure that is less than 90° is called an acute angle.
- 3. An angle with a measure greater than 90° is called an obtuse angle.
- 4. An angle with that measures exactly 180° is called a straight angle or a line.
- 5. An angle that measures exactly 90° is called a right angle.

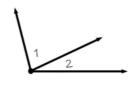




- 7. Two lines that intersect to form a right angle are called perpendicular lines.
 - The symbol 1 indicates that one line is perpendicular to another.



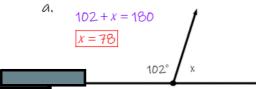
- 8. Two angles that share a common vertex and a common ray are called adjacent angles.
 - The sum of angles 1 and 2 is 96 degrees. If angle 1 is 58 degrees, what is the measure of angle 2? $96-58 = 38^{\circ}$



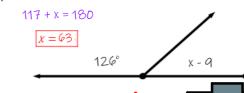
- When the noncommon sides of two adjacent angles form a straight line, they are called a <u>Linear Pair</u>
 - The sum of the two angles of a linear pair is 180°.
 - When two angles have a sum of 180° they are also called supplementary. 50pp
 - We can use the equation angle + angle = 180 to solve problems when angles are supplementary.



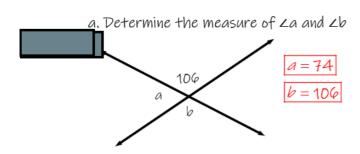
Solve for x:

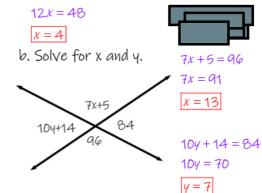


la 126 + x - 9 = 180



- 10. When two lines intersect, four angles are formed.
 - The adjacent angles form Linear Pairs and their sum is 180°.
 - The non-adjacent angles are called Vertical angles. Vertical angles are always congruent.
 - For Vertical angles we can use the equation angle = angle to solve.
 - o If the measure of angle 1 is 54 degrees, and the measure of angle 3 can be expressed as (12x + 6), solve for x. 12x + 6 = 54

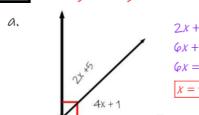


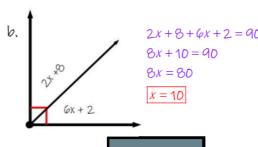






11. When the sum of two angles is 90° we say that they are complementary We can use the tion angle + angle = 90 to solve.



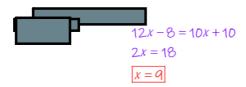


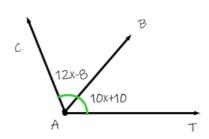
- 12. When a ray cuts an angle exactly in half it is called an angle bisector.
 - This creates two equal pieces.

a. $\angle DOG$ is 98 degrees. \overrightarrow{OT} is an angles bisector. Find the measure of Za and Zb.



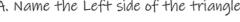
b. \overrightarrow{AB} is and angle bisector. Solve for x.



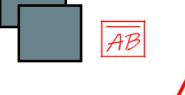


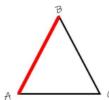
- 13. Naming sides of polygons
 - The sides of polygons are formed by line segments. 10 name a side, we use two letters with a bar over them.

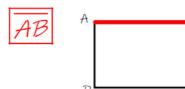




A. Name the Left side of the triangle. B. Name the top side of the rectangle.







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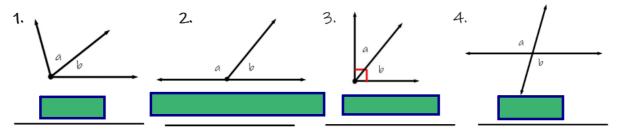
Delta Math

Delta Math

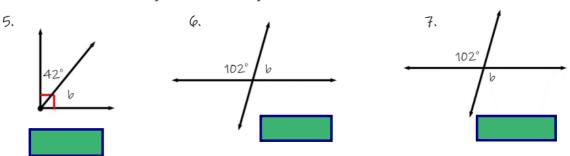
O upload Angle Practice to CTLS

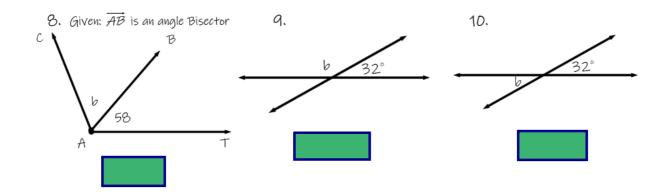
Angles Practice Page

Name the relationship between angle a and angle b.

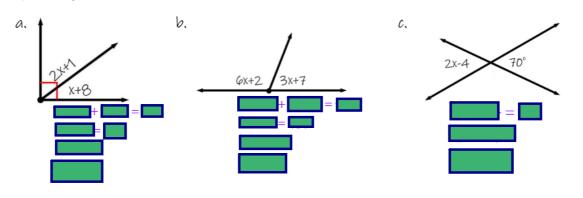


Find the measure of angle b in each diagram.

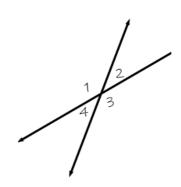




9. Solve for x.



- 10. Answer the questions using the diagram to the right.
- a. Name the two pairs of vertical angles:
- b. Name 4 linear pairs:
- c. If the measure of angle 1 is 107, what is the measure of angle 2?
- d. If the measure of angle 1 is 107, which other angle must also be 107?



Word Problems:

- 11. Two angles are complementary. The first angle is 5 times the measure of the second angle. Find both angles.
- 12. Two angles are supplementary. The first angle is 9 less than 2 times the second angle. Find both angles. \Box _+ \Box _- \Box
- 13. Two angles are supplementary. One angle is 2/3 the measure of the other one. Find both angles.
- 14. Two angles are complementary. One angle is 9 more than twice the other angle. Find both angles.
- 15. CHALLENGE SECTION: Find the measure of all the numbered angles below.



