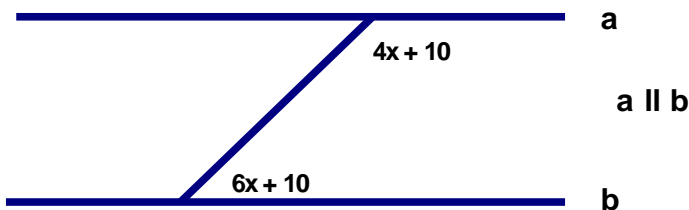
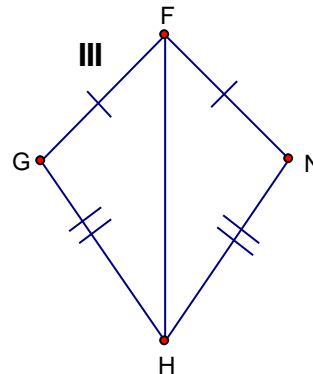
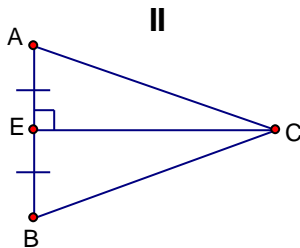
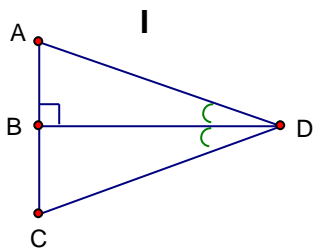


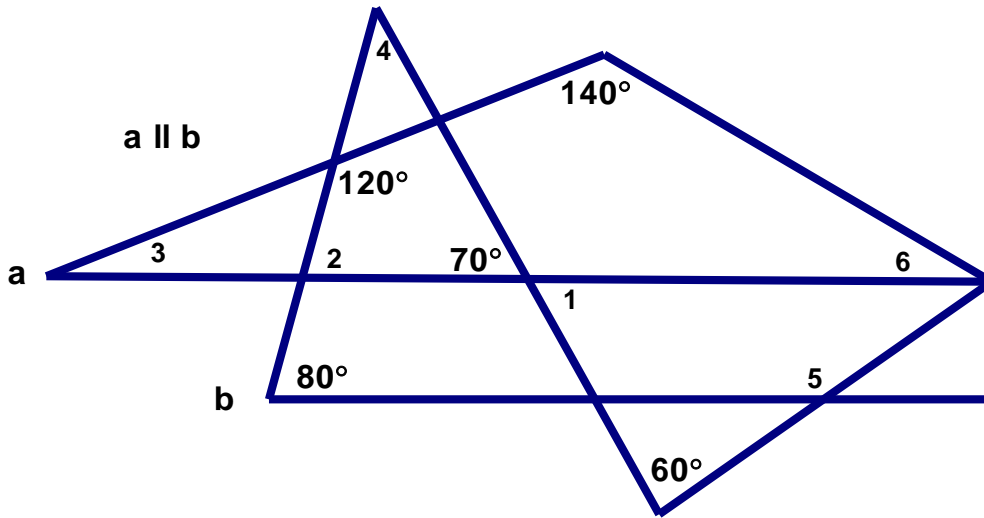
- _____13. Let p represent $\sqrt{11} = z$, and let q represent z is a rational number. What is a symbolic representation of the statement: "If $\sqrt{11} = z$, then z is not a rational number"?
- A. $q \rightarrow p$ B. $p \rightarrow \sim q$ C. $\sim q \rightarrow p$ D. $q \rightarrow \sim p$
- _____14. If $AB = 6$ and $AB + BC = 10$, then $6 + BC = 10$ demonstrates what property?
- A. Subtraction B. Addition C. Substitution D. Symmetric
- _____15. If $\triangle ABC \cong \triangle ERT$ with $AB = 10$, $BC = 13$, $\angle A = 39^\circ$, and $\angle R = 88^\circ$, what is RT ?
- A. 39° B. 88° C. 10 D. 13
- _____16. In my class, everyone plays either golf or tennis. 14 play golf and 8 play tennis. If 3 play both tennis and golf, how many kids are in my class?
- A. 17 B. 19 C. 22 D. 25
- _____17. There are 30 kids who play either soccer or baseball. 4 of the 30 kids play both soccer and baseball. If the soccer team has 18 members, how many kids are on the baseball team?
- A. 12 B. 16 C. 20 D. 26
- _____18. There are 14 kids in band and 16 in chorus. If 4 of these kids are in both chorus and band, how many total kids are in either band or chorus?
- A. 26 B. 28 C. 30 D. 34
- _____19. What equation would be perpendicular to $y = 2x + 5$
- A. $y = -x - 5$ B. $y = -2x - 5$ C. $y = -\frac{1}{2}x - 5$ D. $y = \frac{1}{2}x - 5$
- _____20. What is the distance from $(1, 5)$ to $(7, 6)$?
- A. $\sqrt{37}$ B. $\sqrt{23}$ C. $\sqrt{24}$ D. None of the above
- _____21. If $BCDE$ is congruent to $OPQR$, then \overline{DE} is congruent to _____?
- A. \overline{PR} B. \overline{PQ} C. \overline{QR} D. \overline{OP}
- _____22. Line a and line b are perpendicular to each other. If line a has a slope of 4, what is the slope of line b ?
- A. 4 B. -4 C. $\frac{1}{4}$ D. $-\frac{1}{4}$
- _____23. What is the value of x in the figure below?
- A. 15° B. 16° C. 19° D. 0°



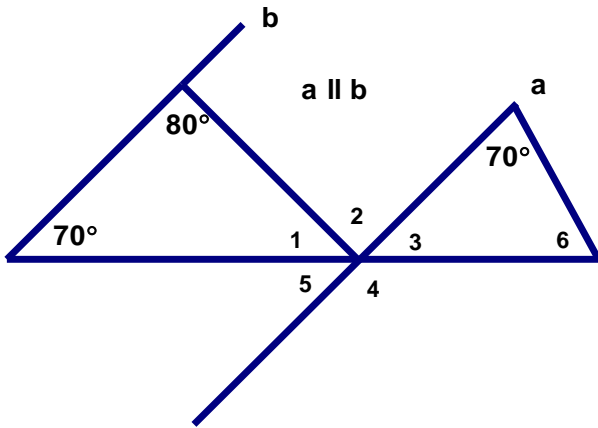
- ____ 24. In $\triangle ABC$, $\angle A = 3n$, $\angle B = 5n - 30$, $\angle C = 2n + 10$. What is the measurement of $\angle A$?
 A. 20° B. 40° C. 60° D. 80°
- ____ 25. Give the equation in slope intercept form that goes through $(2, 7)$ and has a slope of 4.
 A. $y = 4x - 26$ B. $y = 4x + 1$ C. $y = -4x + 15$ D. $y = 4x - 1$
- ____ 26. What would be the slope of the line that is perpendicular to $y = 5x + 4$?
 A. 5 B. -5 C. $\frac{1}{5}$ D. $-\frac{1}{5}$
- ____ 27. If $\triangle ABC$ is an isosceles triangle with $AB = BC$, which statement must be true?
 A. $\angle C = \angle B$ B. $\angle A = \angle B$ C. $\angle A = \angle C$ D. $AC = B$
- ____ 28. If $\triangle ABC \cong \triangle XYZ$, which of the following must be true?
 A. $\angle A = \angle Z$ B. $AC = XY$ C. $XZ = BC$ D. None of the above
- ____ 29. If $\triangle ABC$ is an isosceles triangle with $AC = BC$ and $\angle A = 40^\circ$, what is $\angle B$?
 A. 40° B. 70° C. 80° D. None of the above
- ____ 30. If $\triangle ABC \cong \triangle XYZ$, $AB = 38$, $YZ = 28$, and $XY = 5x + 8$, what is the value of x ?
 A. 30 B. 20 C. 6 D. 4
- ____ 31. If in $\triangle CWH$, $\angle W = \angle H$ what can you conclude?
 A. $CW = WH$ B. $CH = CW$ C. $CH = WH$ D. $\angle C = 100^\circ$



- ____ 32. In picture I above, what allows you to immediately conclude that $\triangle ABD \cong \triangle CBD$?
 A. ASA B. SAS C. AAA D. SAA
- ____ 33. In picture II above, what allows you to immediately conclude that $\triangle AEC \cong \triangle BEC$?
 A. ASA B. SAS C. AAA D. SAA
- ____ 34. In picture III above, what allows you to immediately conclude that $\triangle FGH \cong \triangle FNH$?
 A. SSS B. SAS C. AAA D. SAA



- ____35. What is the measurement of $\angle 3$ above?
 A. 20° B. 30° C. 70° D. 80°
- ____36. What is the measurement of $\angle 5$ above?
 A. 120° B. 130° C. 140° D. 150°



- ____37. What is the measurement of $\angle 1$ above?
 A. 20° B. 30° C. 40° D. 70°
- ____38. What is the measurement of $\angle 6$ above?
 A. 20° B. 30° C. 40° D. 70°
- ____39. A line has an endpoint at (2, 6) and a midpoint at (4, 10). What would the other endpoint be?
 A. (3, 8) B. (6, 16) C. (6, 14) D. (3, 16)
- ____40. Which of the following doesn't prove congruency?
 A. SSS B. SSA C. ASA D. AAS