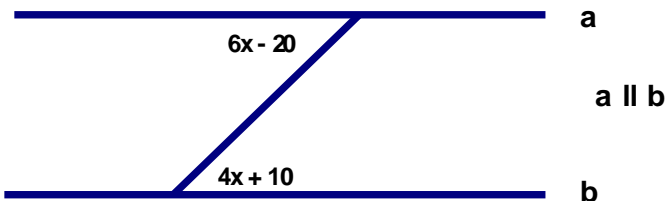


Geometry Review Quiz (Chapters 1-4) Lookalike

Name _____

- _____ 1. If D is between A and B with $AD = 3n - 1$, $BD = 2n + 4$, and $AB = 33$, what is BD?
- _____ 2. If the diagonal distance of a rectangle is 97 cm and one of the sides is 65 cm, what is the other side length?
- _____ 3. What is the midpoint of a line that has endpoints at (10, -4) and (6, -2)?
- _____ 4. Point A is at (4, 6) and B is at (12, 10). If B is the midpoint of \overline{AC} , what are the coordinates of C?
- _____ 5. If C is between X and Y with $CX = 8n - 4$ and $CY = 2n + 10$, what is XY?
- _____ 6. \overline{BY} bisects $\angle ABC$. If $\angle ABC = 2n + 4$, what is $\angle ABY$?
- _____ 7. If $\angle A$ and $\angle B$ are a linear pair with $\angle A = n + 40$ and $\angle B = n + 60$, what is the measurement of $\angle B$?
- _____ 8. Consider the statement "If you are nice, you have a lot of friends."
"If you are not nice, you don't have a lot of friends" is the _____ of above.
A. Converse B. Inverse C. Contrapositive D. Sublimation
- _____ 9. "If you like dogs, you like cats" is represented by $p \rightarrow q$. What would be the symbolic representation of "if you don't like cats, you like dogs"?
- _____ 10. If $AB = 6$ and $AB + BC = 10$, then $6 + BC = 10$ demonstrates what property?
- _____ 11. 4 kids are on both the chess team and the bowling team. If there are a total of 10 kids on the chess team and a total of 24 kids who are on the chess team or bowling team, how many kids are on the bowling team?
- _____ 12. What is the area of a circle with a diameter of 8 cm?
- _____ 13. If the perimeter of a triangle is 40 cm with sides of length $3n$, $2n + 12$, and $5n - 2$, what is the value of n?
- _____ 14. What is the value of x in the figure below?

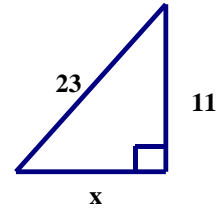


_____ 15. What is the distance from $(-2, 5)$ to $(4, 8)$? Round your answer to nearest tenth.

_____ 16. Let p represent x is an integer and q represent x is not a whole number.
What is the representation of "If x is a whole number, then it is not an integer"?

_____ 17. If $\angle A$ and $\angle B$ are vertical angles with $\angle A = 3n + 40$
and $\angle B = n + 60$, what is the measurement of $\angle B$?

_____ 18. What is the value of x in the triangle to the right?



19. Give the shorthand notations for

_____ A) AND

_____ B) THEREFORE

_____ C) OR

_____ D) IF AND ONLY IF

_____ 20. Which set of side lengths would be a right triangle?

A. 11, 19, 22

B. 8, 12, 6

C. 20, 15, 11

D. 15, 17, 8

_____ 21. A dog is tied to pole with a rope that is 25 feet long.
How much area does the dog have to run around in?

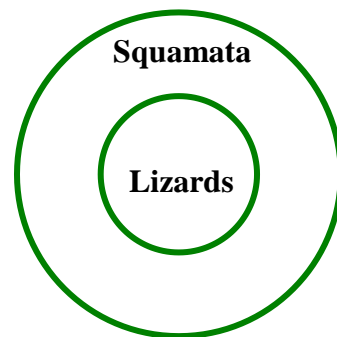
_____ 22. Which statement represents
what is being said in the figure to the right?

A. All Squamata are lizards.

B. Some Squamata are lizards.

C. All lizards are Squamata.

D. Some lizards are Squamata.



23. Find the indicated angles in the figure below.

$\angle 1 =$ _____

$\angle 2 =$ _____

$\angle 3 =$ _____

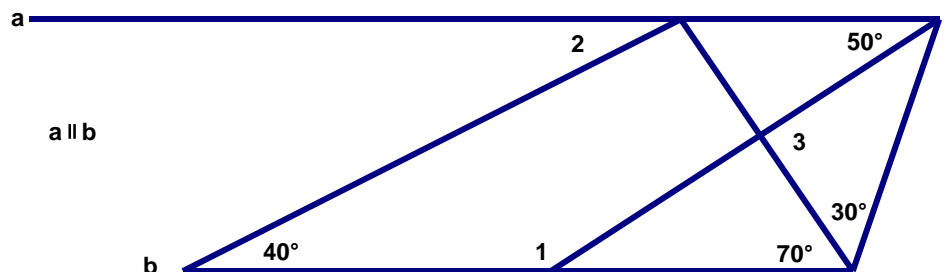


Figure 1

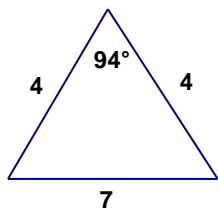


Figure 2

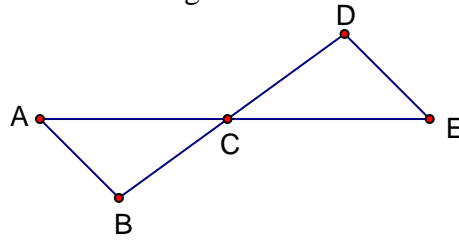
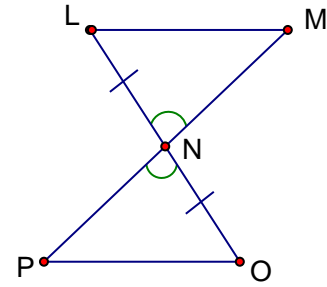


Figure 3



- _____ 24. What type of triangle is pictured in Figure 1 above?
- _____ 25. In figure 2 above, \overline{AE} and \overline{BD} bisect each other at point C .
What postulate would be used to prove that $\triangle ABC \cong \triangle EDC$?
- _____ 26. In figure 3 above, what additional information is needed to prove that $\triangle MNL$ is congruent to $\triangle PNO$ by ASA?
- _____ 27. If $\triangle RST \cong \triangle HIJ$, $\angle R = 97^\circ$, $\angle J = 37^\circ$, and $\angle S = 4x + 14$, what is the value of x ?
- _____ 28. What is the slope between $(2, 3)$ and $(4, 13)$?
- _____ 29. Give the equation of the line, in slope intercept form, that is perpendicular to $y = 2x - 5$ and passes through the point $(2, 8)$.