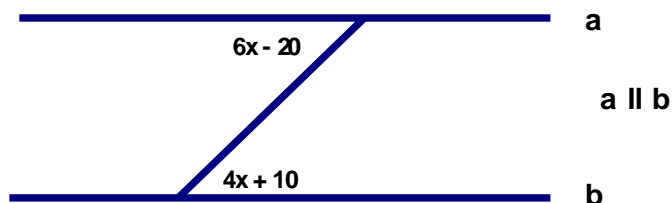


# Geometry Review Quiz (Chapters 1-7) Lookalike

Name \_\_\_\_\_

- \_\_\_\_\_ 1. If D is between A and B with  $AD = n - 2$ ,  $BD = 2n + 4$ , and  $AB = 83$ , what is BD?
- \_\_\_\_\_ 2. If the diagonal distance of a rectangle is 26 cm and one of the sides is 24 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  $\angle ABY = 4n + 6$ , what is  $\angle ABC$ ?
- \_\_\_\_\_ 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 don't have a lot of friends, you are not nice" 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. 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?
- \_\_\_\_\_ 12. What is the area of a square whose perimeter is 40 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?

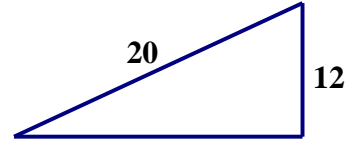


- \_\_\_\_\_ 15. What is the distance from (-2, 5) to (4, 8)? Round your answer to nearest tenth.

\_\_\_\_\_ 16. “If you have a laptop, then you have a computer” is represented by  $p \rightarrow q$ .  
 What is the symbolic representation of “If you have a computer, then you don’t have a laptop”?

\_\_\_\_\_ 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 right triangle to the right?

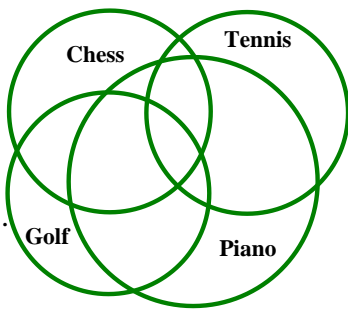


19. Give the shorthand notations for

- \_\_\_\_\_ 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. Darken the section that represents the kids who play chess and piano, but nothing else.

23. Find the indicated angles in the figure below.

$\angle 1 =$  \_\_\_\_\_  
 $\angle 2 =$  \_\_\_\_\_  
 $\angle 3 =$  \_\_\_\_\_

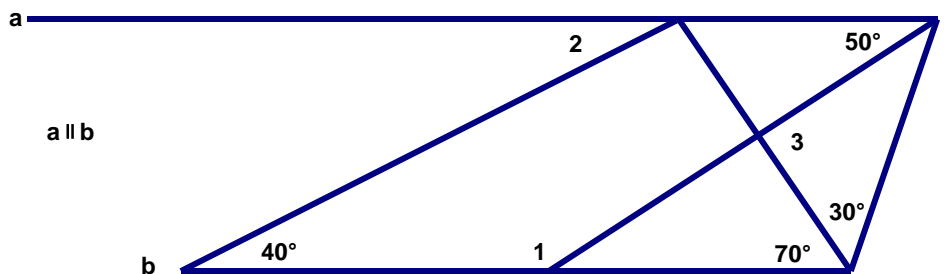


Figure 1

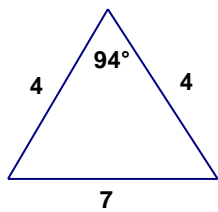


Figure 2

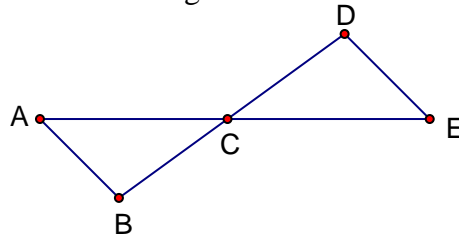
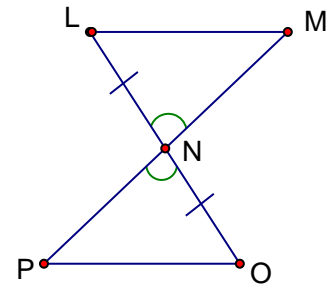


Figure 3



- \_\_\_\_\_ 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 AAS?
- \_\_\_\_\_ 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).
- \_\_\_\_\_ 30. Which set of numbers could be a measure of the sides of a triangle?  
A. 2, 4, 2                      B. 20, 4, 15                      C. 4, 6, 1                      D. 5, 7, 5
- \_\_\_\_\_ 31. In  $\triangle RST$   $\angle R = x + 10$ ,  $\angle S = x + 5$ , and  $\angle T = 3x - 35$ .  
Choose the list of sides of  $\triangle RST$  that are ordered correctly from longest to shortest.  
A.  $\overline{RS}, \overline{ST}, \overline{TR}$                       B.  $\overline{ST}, \overline{RS}, \overline{TR}$  C.  $\overline{TR}, \overline{RS}, \overline{ST}$  D.  $\overline{ST}, \overline{TR}, \overline{RS}$
- \_\_\_\_\_ 32. A = (4, 6), B = (1, 7), and C = (-2, -2) in  $\triangle ABC$   
What are the coordinates of X if  $\overline{CX}$  is a median of  $\triangle ABC$ ?
- \_\_\_\_\_ 33. A = (3, 4), B = (2, -1), and C = (9, 2) in  $\triangle ABC$ . Which angle is largest?
- \_\_\_\_\_ 34. What is the sum of the measures of the interior angles of an octagon?
- \_\_\_\_\_ 35. How many degrees is each interior angle of a regular hexagon?
- \_\_\_\_\_ 36. If the measure of each exterior angle of a regular polygon is  $10^\circ$ ,  
how many sides does the polygon have?
- \_\_\_\_\_ 37. If ABCD is a parallelogram with  $\angle A = x$  and  $\angle D = 2x - 3$ , what is the value of  $x$ ?

\_\_\_\_\_ 38. What is C in parallelogram ABCD if A = (2, 0), B = (8, 0), and D = (2, 9)?

\_\_\_\_\_ 39. Diagonals are always perpendicular in a  
A. parallelogram    B. trapezoid    C. rhombus    D. rectangle

\_\_\_\_\_ 40. Solve for n:  $\frac{4}{n+2} = \frac{7}{2n+3}$

\_\_\_\_\_ 41. What is the value for x in Figure 1 below?

\_\_\_\_\_ 42. What is the value for x in Figure 2 below?

\_\_\_\_\_ 43. What is the value for x in Figure 3 below if LM = 40 and lines are parallel?

Figure 1

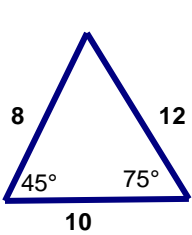


Figure 2

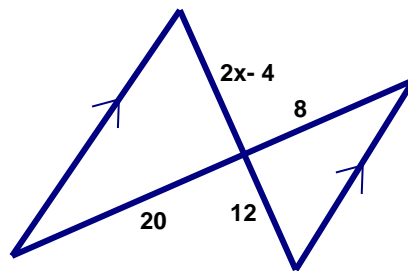
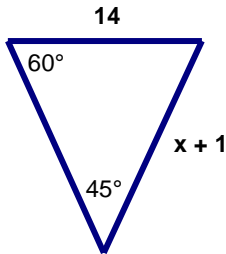


Figure 3

