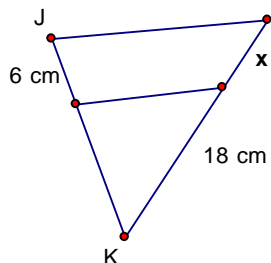


# DE Geometry Review Quiz 3

Name \_\_\_\_\_

- \_\_\_\_\_1. A triangle has leg lengths of 3, 4, and 4. The largest angle is  $70^\circ$ . [4-1]  
What type of triangle is it?  
A. Acute Scalene    B. Acute Isosceles    C. Obtuse Scalene    D. None of these

- \_\_\_\_\_2. What is the value of  $x$  below if  $JK = 24$ ? [7-2]



- \_\_\_\_\_3. What is the converse of the following statement? [2-1]  
“If Joe goes fishing, then he needs bait.”  
A. If he needs bait, then Joe goes fishing.  
B. If Joe does not go fishing, then he does not need bait.  
C. If he does not need bait, then Joe does not go fishing.  
D. If Joe goes fishing, then he does not need bait.

- \_\_\_\_\_4. In my class, there are 30 kids. Everyone either plays golf or tennis. [2-4]  
If 15 play golf and 2 play both sports, how many total people play tennis?

- \_\_\_\_\_5. What is the midpoint of a line that has endpoints at (2, 6) and (-2, 8)? [1-4A]  
A. (0, 7)    B. (1, 14)    C. (1, 7)    D. (0, 14)

- \_\_\_\_\_6. If  $\angle A$  and  $\angle B$  are vertical angles with  $\angle A = 3n + 5$  and  $\angle B = n + 15$ , [1-5B]  
what is the measurement of  $\angle B$ ?  
A. 65    B. 5    C. 20    D. None of the above

- \_\_\_\_\_7. How many degrees is each individual angle on the inside of a regular decagon? [6-1]  
A.  $92^\circ$     B.  $108^\circ$     C.  $112^\circ$     D.  $144^\circ$

- \_\_\_\_\_8. Given the following measurements of a triangle, which is a right triangle? [1-3]  
A. 7 cm, 24 cm, 25 cm    B. 45 cm, 40 cm, 35 cm  
C. 51 cm, 50 cm, 48 cm    D. 45 cm, 35 cm, 25 cm

- \_\_\_\_\_9. What is the equation in slope intercept form that goes through (1, 4) and (3, 10). [4-4]  
Remember  $y - y_1 = m(x - x_1)$   
A.  $y = 3x + 1$     B.  $y = 3x - 10$     C.  $y = -3x + 10$     D.  $y = -3x - 10$

- \_\_\_\_\_10. Which quadrilateral below has diagonals that bisect at  $90^\circ$ ? [6-3]  
A. trapezoid    B. rectangle    C. rhombus    D. parallelogram