

Geometry Chapter 2 Practice Test 2 GEO 2

Name: _____ Time Start: _____ Finish: _____ Total Time = _____

1. If you are 10, you should not drive a car.

Converse: _____

Inverse: _____

Contrapositive: _____

2. If you are a teacher, you are not paid well.

Converse: _____

Inverse: _____

Contrapositive: _____

3. All students love math.

Converse: _____

Inverse: _____

Contrapositive: _____

4. Consider the statement “If a figure is a square, it has four right angles.”

a.) Is the converse of this statement true? _____

b.) Is the inverse of this statement true? _____

c.) Is the contrapositive of this statement true? _____

True/False

_____ 5. The converse of all dogs like to chase cats is that some dogs like to chase cats.

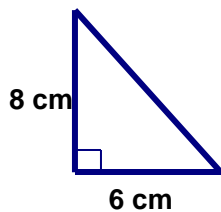
_____ 6. The contrapositive of “if you have a dog, you like cats” is “if you don’t like cats, you love dogs.”

_____ 7. The inverse of “if you are old, you have a big head” is “if you don’t have a big head, then you are not old.”

- _____ 8. “If you drive in the left lane, you are not a good driver” is represented by $p \rightarrow q$. What would be the symbolic representation of “if you are a good driver, you don’t drive in the left lane”?
- _____ 9. “If you like Jim, you are not a friend of Rick” is represented by $p \rightarrow q$. What would be the symbolic representation of “if you are a friend of Rick, you like Jim”?
- _____ 10. What is the contrapositive of $\sim r \rightarrow p$?
- _____ 11. What is the inverse of $\sim r \rightarrow p$?
- _____ 12. If the area of a circle is 380.13 cm^2 , what is the circumference?
- _____ 13. What is the perimeter of a triangle with the following vertices: $(2, 6)$ $(7, 4)$ $(9, 12)$

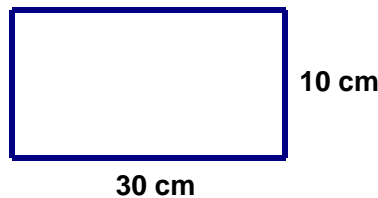
Give the perimeter (circumference for a circle) and area of each of the given shapes. (1 point each)

14.



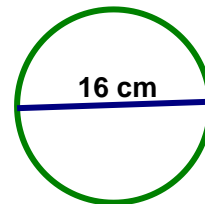
14. Perimeter = _____
Area = _____

15.



15. Perimeter = _____
Area = _____

16.



16. Circumference = _____
Area = _____

- _____ 17. A rectangle has a width of $3n + 5$ and a length of $2n + 10$. If the perimeter is 70, what is the value of n ?

True/False for 18-21. Please write out the entire word neatly.

- _____ 18. The converse of “all people like pizza” is “some people like pizza.”
- _____ 19. The inverse of “if you like dogs, then you are a kid” is “if you are a kid, then you like dogs.”
- _____ 20. The contrapositive of “if you have a dog, you like cats” is “if you don’t like cats, you love dogs.”
- _____ 21. Consider the statement: “If an angle is 90 degrees, it is a right angle.” Is the converse of this statement true or false?