

Geometry Chapter 2 Practice Test 1 GEO2

Name _____

Consider the following:

- a – you live in Radford
- b – you live in America
- c – you live in Virginia
- d – you like Sal's

1. What would be the converse of $a \rightarrow b$?

2. What would be the inverse of $a \rightarrow d$?

3. What would be the contrapositive of $c \rightarrow b$?

4. If $a \rightarrow c$ and $c \rightarrow b$, what can you conclude?

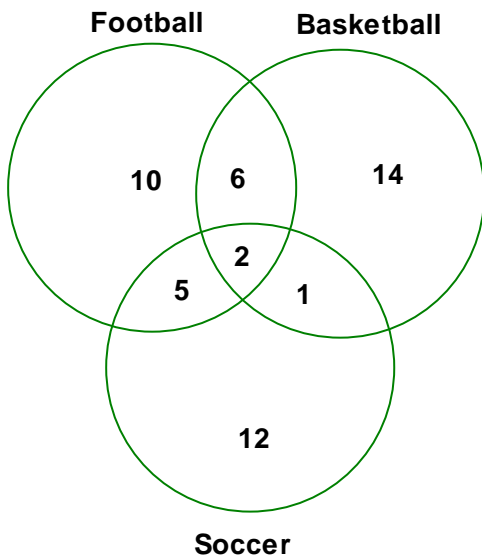
5. Let p represent n is a whole number and q represent n is rational number. What is the symbolic representation of “If n is not a rational number, then n is not a whole number?”

6. “If you eat all of your supper, then you get ice cream” is represented by $p \rightarrow q$. What is the symbolic representation of “If you don't eat ice cream, then you didn't eat all of your supper”?

7. Consider the following statements:
p: You run.
q: I will not shoot you with my taser.
What is the symbolic representation of “If I shot you with my taser, then you ran”?

8. List out all polygons you can think of (like quadrilateral, etc.) and say how many sides they have?

Consider the following Venn diagram.



- _____ 9. How many kids are on the basketball team and the football team?
- _____ 10. How many kids are playing all three sports?
- _____ 11. How many kids are on the football team?
- _____ 12. How many kids play basketball, but no other sport?
- _____ 13. How many kids play soccer and basketball?
- _____ 14. How many kids are on the basketball team?
- _____ 15. What is the area of a circle with a radius of 10 cm?
- _____ 16. What is the circumference of a circle with a diameter of 12 cm?
- _____ 17. What is the area of a triangle that has a base of 4 cm and a height of 10 cm?
- _____ 18. What is the area of a circle with a diameter of 8 cm?
- _____ 19. If the perimeter of a triangle is 26 cm with sides of length $n + 6$, $4n$, and $4n + 2$, what is the value of n ?
- _____ 20. What would make the most sense as to the area of my classroom?
A. 25 ft² B. 530 ft² C. 2600 ft² D. 30,000 ft²