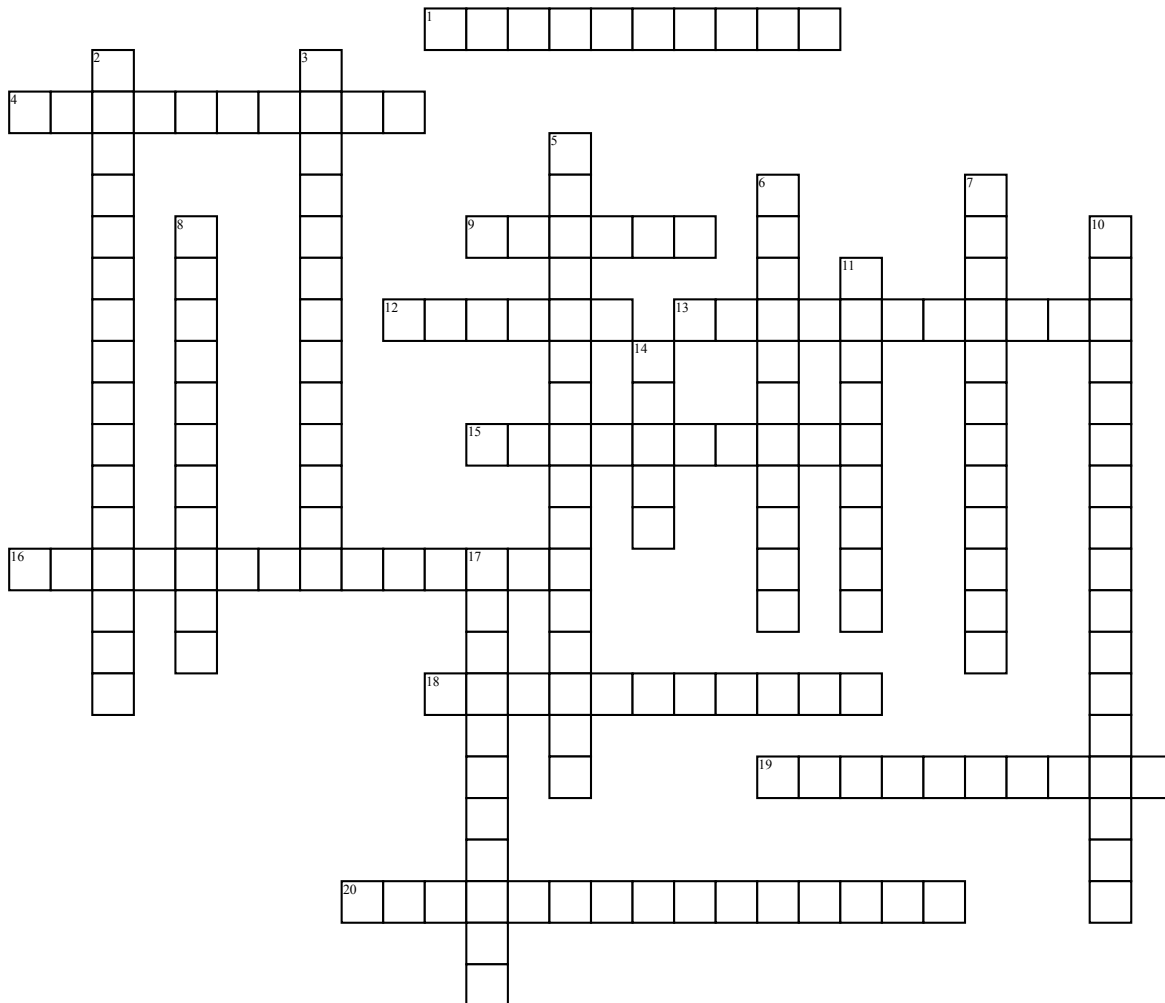


# The heart



## Across

1. Lower chambers and pump blood out of the heart  
 4. The middle layer of the heart and is the thickest of the 3 layers  
 9. Pacemaker of the heart  
 12. The upper chambers and receive the blood into the heart  
 13. Resembles a bishops mitre a hat with cusps or flaps  
 15. Thin outermost layer of the heart and also helps from the pericardium  
 16. Branches that send out numerous long fibers

18. Semilunar valve located between the left ventricle and aorta  
 19. Study of the heart  
 20. The cusps of the valve resemble a half moon

## Down

2. Arteries supplying the myocardium  
 3. Located between the left atrium and the left ventricle; has two cusps  
 5. Specialized tissue in the heart that generates and transmits the electrical system

6. Cardiac tissue fires a cardiac impulse regularly ; rhythmic beating of the heart  
 7. Large blood vessels attached to the heart  
 8. Heart is supported by a sling like structure  
 10. Record of these electrical signals  
 11. SA Node of the heart  
 14. Hollow muscular organ  
 17. The hearts innermost layer