1. If `xx <- c(1:7,5,3:2)` what will `sum(xx==3)` give you?
   2

2. If `fx <- function(x,y){x^2+y}` what would `fx(c(3,5),3)` give you?
   12 28

3. If `x <- matrix(12:1,ncol=6,byrow=T)` what is `x[-1,]`?
   6 5 4 3 2 1

4. If `F <- function(x){ if(sum(x)>15) y <- 15 else y <- sum(x); y}`, what will `F(c(1,5,7))` return?
   13

5. Which of these expressions give the (same) most frequent answer? Circle them or give answer.
   \(-2^2\), \(-2**2\), \((-2)^2\), \(-(2^2)\)
   -4

6. What does `1/(Inf/pi)` produce?
   0

7. What is the effect of `rm(list=ls())`?
   removes all objects from workspace.

8. What does `dput(matrix(1:8,ncol=4),"Xfile")` do?
   It saves that matrix to a file named Xfile.

9. With the previous command, what would `x <- dget("Xfile")` and `x[2,2]` give you?
   4

10. What is the result of `rev(seq(1,4,.7))`?
    3.8 3.1 2.4 1.7 1.0

11. What is the result of `1:5 > 2.5`?
    FALSE FALSE TRUE TRUE TRUE

12. What is the result of `TRUE+5`?
    6

13. What is the result of `rep(c(0,0,7),length.out=5)`?
    0 0 7 0 0

14. What is the result of `rep(c(0,0,7),each=2)`?
    0 0 0 0 7 7

15. If `x <- 1:6` and `x[x!=5] <- 0`, what is the final result of `x`?
    0 0 0 5 0

16. What is the result of `which(1:6 > 5)`?
    6
17. What are trunc(-4.2) and floor(-4.2)?
   -4 and -5, respectively.

18. What results from 2^(1:3)-c(2,2,2)^(1:3)?
   0 0 0

19. For x <- c(NA,1:2) and y <- c(2:1,NA) what is sum(is.na(x)==is.na(y))? 
   1

20. If L <- list(V = 6:1, F = function(x){x**2+1}), what are L$V[2] and L$F(2)?
   5 and 5.

21. Is a data frame i) a list ii) a matrix ? (Answer both yes/no.)
   i) yes  ii) no

22. If x <- c(NA,3,5,NA,34) what is the result of sum(is.na(x))?
   2

23. If x <- c(NA,3,5,NA,34) and x[is.na(x)] <- 999, what is x[4:5]?
   999 34

24. What is the effect of xlab="x" in a plot(xdat,ydat,xlab="x") command?
   places an x below the x-axis as a label.

25. What is the effect of abline(1,0) after a plot(xdat,ydat,xlab="x") command?
   draws a line through (0,1) with slope 0.

The scores are shown below in histogram form. There was one perfect score 100/100.