

NATIONAL SENIOR CERTIFICATE EXAMINATION NOVEMBER 2019

INFORMATION TECHNOLOGY: PAPER II MARKING GUIDELINES

Time: 3 hours 120 marks

These marking guidelines are prepared for use by examiners and sub-examiners, all of whom are required to attend a standardisation meeting to ensure that the guidelines are consistently interpreted and applied in the marking of candidates' scripts.

The IEB will not enter into any discussions or correspondence about any marking guidelines. It is acknowledged that there may be different views about some matters of emphasis or detail in the guidelines. It is also recognised that, without the benefit of attendance at a standardisation meeting, there may be different interpretations of the application of the marking guidelines.

SECTION A

QUESTION 1

Question 1.1 (4)

SELECT *
FROM STUDENT
WHERE IsSenior = TRUE
ORDER BY StudentName

Question 1.2 (4)

Question 1.3 (3)

```
SELECT RegistrationID,
AccumulatedHours/NumAttended correct fields
correct division
FROM REGISTRATION
```

Question 1.4 (4)

```
SELECT DISTINCT
SUBSTR (ProjectName,1,3) ACCESS: LEFT (ProjectName, 3)
FROM PROJECT

ALTERNATIVE:

SELECT SUBSTR (ProjectName,1,3) ACCESS: LEFT (ProjectName, 3)
FROM PROJECT
GROUP BY SUBSTR(ProjectName,1,3) ACCESS: LEFT(ProjectName, 3)
```

Question 1.5 (4)

```
SELECT ProjectName, StudentName Both Fields correct FROM STUDENT, PROJECT WHERE StudentLeaderID = StudentID
```

Question 1.6 (5)

GROUP BY StudentID

```
SELECT StudentID, SUM (AccumulatedHours)
AS TOTALHOURS
FROM REGISTRATION
```

Question 1.7 (4)

WHERE StudentID

SELECT StudentName FROM STUDENT

```
NOT IN Both NOT and IN
  (SELECT StudentID
     FROM REGISTRATION
ALTERNATIVE:
SELECT StudentName FROM STUDENT
LEFT JOIN REGISTRATION
ON STUDENT.StudentID = REGISTRATION.StudentID
WHERE RegistrationID
     IS NULL
Question 1.8 (4)
SELECT ProjectName FROM PROJECT
WHERE DateStarted =
( SELECT MAX (DateStarted)
   FROM PROJECT
Question 1.9 (8)
SELECT StudentName, Count(*) AS NumProjects
FROM REGISTRATION, STUDENT Both tables
WHERE STUDENT.StudentID=REGISTRATION.StudentID
GROUP BY StudentName
HAVING COUNT(*) >= 2
JAVA SOLUTION
QUESTION 2
                STUDENT CLASS
// Ouestion 2.1 - 4
public class Student
                     // Class header
   private String fullName; // all attributes private
   private double hours;
// Question 2.2 - 3
   public Student(String inFn, int inG, String inI, double inH)
                            // correct header and parameter names
   {
       fullName = inFn; // fields set to parameters
       grade = inG;
       interest = inI;
       hours = inH;
   }
```

```
// Question 2.3 - 2
   public int getGrade() // correct headers for all three methods
   {
        return grade;
    }
   public String getInterest() // correct returns for all three methods
        return interest;
   public double getHours()
        return hours;
    }
// Question 2.4 - 4
   private String alterName() // correct header
    {
        String temp = "";
        Scanner sc = new Scanner(fullName);
        String fName = sc.next(); // isolate surname
       String sName = sc.next(); // isolate firstname & initial
        return sName + ", " + fName.charAt(0);
                           // combine in the correct format
   }
// Question 2.5 - 3
   @Override
   public String toString() // correct header
        return alterName() + "\t" + grade + "\t" + interest + "\t" + hours;
        // call alterName()
        // correct format with tabs
    }
QUESTION 3
                 GRADE CLASS
// Question 3.1 - 2
public class Grade // correct name
{
   private int grade; // correct fields grade and total
   private double total;
// Question 3.2 - 2
   private final int LIMIT = 20; // correct values assigned
   private final int BONUS = 10; // constant fields declared
// Question 3.3 - 4
   public Grade(int inG, double inT)
                                   // assign grade field
       grade = inG;
        if (inT > LIMIT)
                                   // compare inT to LiMIT
           total = inT + BONUS;  // add BONUS to total when > limit
       else total = inT;
                                   // otherwise assign inT to total
    }
```

```
// Question 3.4 - 2
   public double getTotal() // correct accessor method
   {
       return total;
   }
   public void setTotal(double inT) // correct mutator method
       total = inT;
   }
// Question 3.5 - 2
   @Override
                             // correct header
   public String toString()
   {
       return "Grade:" + grade + " total hours " + total;
                                   // fields correctly combined
   }
}
QUESTION 4, 6 & 7
                       PROJECT CLASS
// Question 4.1 - 2
public class Project // correct header
{
   private String name; // fields name and max correctly declared
   private int max;
// Question 4.2 - 4
   private Student sArr[] = new Student[50]; // correct object name
                                        // 50 elements declared
                                         // sCount correctly declared
   private int sCount = 0;
   private Grade gArr[] = new Grade[5]; // gArr correctly declared
// Question 4.3 - 8
   public Project(String inN, String inC, int inM)
   {
       name = inN; // fields name and max correctly assigned
       max = inM;
       try
        {
           Scanner scFile = new Scanner(new FileReader("Students.txt"));
                                         // file opened for reading
           String nm, i;
            int g;
           double h;
           while (scFile.hasNextLine()) // loop to read file
               String line = scFile.nextLine();
               Scanner scLine = new Scanner(line).useDelimiter(",");
               nm = scLine.next();
                g = scLine.nextInt();
                i = scLine.next();
```

```
h = scLine.nextDouble();
                                         // extract fields
                if (i.equalsIgnoreCase(inC) || i.equals("Both"))
                                        // check for "Both" and category type
                {
                    sArr[sCount] = new Student(nm, g, i, h);
                                   // instatiate Student array object
                                   // increment sCount
                    sCount++;
                }
            }
           scFile.close();
       } catch (FileNotFoundException ex)
           System.out.println("File not found");
   }
// Question 4.4 - 4
   public String toString()
       String temp = "Name:\t^* + name + "\nMaximum:" + "\t" + max + "\n";
       // correct header information and format
       for (int i = 0; i < sCount; i++) // loop through array
           temp += sArr[i] + "\n"; // combine into a string
                                          // return combined string
       return temp;
   }
}
// Question 4.5 - 6
   public void sort()
   {
       for (int i = 0; i < sCount - 1; i++) // correct outer loop
        {
           for (int j = i + 1; j < sCount; j++) // correct inner loop
            {
                if (sArr[i].getGrade() > sArr[j].getGrade())
                                                // correct if statement
                                              // sorts in correct order
                {
                    Student temp = sArr[i];
                    sArr[i] = sArr[j];
                    sArr[j] = temp; // correct swop
                }
           }
       }
   }
```

```
// Question 6 - 13
//4 marks for a successful delete - the delete does not need to be in a
separate method
    private void deleteStudent(int inP)
        sArr[inP] = sArr[sCount - 1];
                    // correct code to delete item
        sort();
        sCount--;
        // decrement sCount
    }
//ALTERNATE deleteStudent
    private void deleteStudent(int inP)
    {
        for (int i = inP; i < sCount; i++)</pre>
                  sArr[i] = sArr[i+1]; // correct code to delete item
                          // decrement sCount
        sCount--;
    }
// 9 Marks to process array
    public String correctNumbers()
                             // check if items need to be deleted
        if (sCount > max)
            int amountToDelete = sCount - max; // determine amount to delete
            String deletedList = "Students removed:\n";
            for (int i = 0; i < amountToDelete; i++) // loop through array</pre>
            {
                int item = (int) (Math.random() * sCount);
                                     // generate random number within range
                deletedList += sArr[item] + "\n";
                                     // create string with deleted items
                deleteStudent(item);
                       // call delete method OR delete code is placed here
            return deletedList + "\nRemaining students:\n" + toString();
           // remaining string created both strings correct with headers
    }
// Question 7 - 9
//6 marks to instantiate GradeArray gArr
    public String createGradeArray(String inH) // correct header
    {
        int grade;
        double hours;
        Scanner scLine = new Scanner(inH).useDelimiter(";");
        while (scLine.hasNext())
        {
            grade = scLine.nextInt();
            hours = scLine.nextDouble(); // fields extracted correctly
```

```
gArr[grade - 8] = new Grade(grade, hours);
                                  // gArr correctly instantiated
        }
        scLine.close();
        return displayAllGradeArray(); // Return a string
    }
//3 marks to create a string of gArr - this does not need to be a separate
method
    private String displayAllGradeArray()
        String tempSt = "\nGrade Totals:\n"; // Correct heading
        for (int i = 0; i < 5; i++) // loop to process Grade array
        {
            tempSt += gArr[i] + "\n"; // objects correctly combined
        return tempSt;
    }
QUESTION 5 & 8 PROJECTUI CLASS
// Question 5.1 - 1
public class ProjectUI // correct header
    public static void main(String[] args)
    {
       // Question 5.2 - 1
       Project clothes = new Project("Collect old clothes", "Indoor", 12);
       // project correctly instantiated
       // Question 5.3 - 2
       clothes.sort();
       System.out.println(clothes);
       // sort method called and object displayed
       // Question 8.1 - 1
       System.out.println(clothes.correctNumbers());
       // call correctNumbers correctly
       // Question 8.2 - 1
       System.out.println
(clothes.createGradeArray("9;53;12;13;8;72;11;90;10;34"));
       // call createGradeArray correctly
    }
}
```

DELPHI SOLUTION

QUESTION 2 STUDENT CLASS

```
unit uStudent;
interface
  uses SysUtils;
// Question 2.1 - 4
type TStudent = class // Class header
                            // all attributes private
    private
      fullName : string;  // all correctly named
grade : integer;  // correct types
      interest : string;
      hours : double;
    public
      constructor Create(inFn: string; inG: integer; inI: string; inH: double);
      function getGrade() : integer ;
      function getInterest(): string;
      function getHours() : double;
      function alterName() : string;
      function toString() : string;
  end;
implementation
// Question 2.2 - 3
  constructor TStudent.Create(inFn: string; inG: integer; inI: string;
       inH: double);  // correct header and parameter names
  begin
    fullName := inFn; // fields set to parameters
    grade := inG;
    interest := inI;
    hours := inH;
  end;
// Question 2.3 - 2
  function TStudent.getGrade() : integer;  // correct headers for all three
methods
  begin
    Result := grade;
  end;
  function TStudent.getInterest() : string; // correct returns for all three
methods
  begin
    Result := interest;
  end;
 function TStudent.getHours() : double;
  begin
    Result := hours;
  end;
```

```
// Question 2.4 - 4
function TStudent.alterName() : string; // correct header
var
  surname, initial: string;
begin
   initial := fullName[1]; // isolate firstname & initial
   surname := Copy(fullName, Pos(' ', fullName) +1, Length(fullName ));
                            // isolate surname
   Result := surname + ', ' + initial; // combine in the correct format
 end;
// Question 2.5 - 3
 function TStudent.toString() : string; // correct header
 var i : integer;
 begin
   Result := alterName() + #9 + IntToStr(grade) + #9 + interest
           + #9 + floattostr(hours);
        // call alterName()
        // correct format with tabs
 end;
end.
QUESTION 3
             GRADE CLASS
unit uGrade;
interface
 uses SysUtils;
// Question 3.1 - 2
 type TGrade = class // correct name
   private
     grade : integer; // correct fields grade and total
     total : double;
     // Question 3.2 - 2
     const
       LIMIT = 20; // correct values assigned
                        // constant fields declared
       BONUS = 10;
   public
     constructor Create(inG: integer; inT: double);
     function getTotal() : double ;
     procedure setTotal(inT: double);
     function toString() : string;
 end;
implementation
 // Question 3.3 - 4
 constructor TGrade.Create(inG: integer; inT: double);
 begin
                                   // assign grade field
   grade := inG;
   if (inT > LIMIT) then
                                   // compare inT to LiMIT
   begin
                                   // add BONUS to total when > limit
     total := inT + BONUS;
   end
```

```
else
   begin
     total := inT;
                           // otherwise assign inT to total
   end;
 end;
// Ouestion 3.4 - 2
 function TGrade.getTotal() : double;
 begin
                            // correct accessor method
   Result := total;
 end;
 procedure TGrade.setTotal( inT: double); // correct mutator method
   total := inT;
 end;
// Question 3.5 - 2
 function TGrade.toString() : string; // correct header
 var i : integer;
 begin
   Result := 'Grade: ' + IntToStr(grade) + ' total hours '
           + floattostr(total); // fields correctly combined
 end;
end.
QUESTION 4, 6 & 7 PROJECT CLASS
unit uProject;
interface
uses
   SysUtils, uStudent, uGrade;
// Question 4.1 - 2
 type TProject = class // correct header
   private
     name : string;
                              // fields name and max correctly declared
     max : integer;
     function displayAllGradeArray() : string ;
   public
     // Question 4.2 - 4
      sArr : array[1..50] of TStudent; // correct object name
                                         // 50 elements declared
     sCount : integer; // sCount correctly declared gArr : array[1..5] of TGrade; // gArr correctly declared
     constructor Create(inN, inC : string; inM: integer);
      function toString() : string;
     procedure sort();
     procedure deleteStudent(inP : integer);
     function correctNumbers() : string;
     function createGradeArray(inH : string) : string;
 end;
implementation
```

```
// Question 4.3 - 8
 constructor TProject.Create(inN, inC : string; inM: integer);
 var
   inFile : TextFile; // fields name and max correctly assigned
   line : string;
   nm,i : string;
   g : integer;
   h : double;
 begin
   name := inN;
   max := inM;
   sCount := 0;
   AssignFile(inFile, 'Students.txt'); // file opened for reading
   Reset(inFile);
   while NOT EOF(inFile) do
                                         // loop to read file
   begin
      Readln(inFile, line);
      nm := Copy(line, 1, Pos(',', line) -1 );
      Delete(line, 1, Pos(',', line));
      g := StrToInt(Copy(line, 1, Pos(',', line) -1));
      Delete(line, 1, Pos(',', line));
i := Copy(line, 1, Pos(',', line) -1 );
      Delete(line, 1, Pos(',', line));
      h := strtofloat(line);
                                           // extract fields
      if (CompareText(inC, i)=0) or (i='Both') then
                                         // check for "Both" and category type
      begin
                                 // increment sCount
        sCount := sCount + 1;
        sArr[sCount] := TStudent.Create(nm, g, i, h);
                                   // instatiate Student array object
      end;
   end;
 end;
// Question 4.4 - 4
 function TProject.toString() : string;
 var i : integer;
 begin
   Result := 'Name: ' + #9 + name + #10#13 + 'Maximum:' + #9 + IntToStr(max)
           + #13#10; // correct header information and format
                                            // loop through array
   for i:= 1 to sCount do
      Result := Result + sArr[i].toString() + #13#10;
                                            // combine into a string
                                            // return combined string
 end;
// Question 4.5 - 6
 procedure TProject.sort();
 var
```

```
i, j : integer;
   temp : TStudent;
 begin
   begin
       if (sArr[i].getGrade() < sArr[j].getGrade()) then</pre>
       begin
                               // correct if statement
                               // sorts in correct order
         temp := sArr[i];
         sArr[i] := sArr[j];
         sArr[j] := temp;
                            // correct swop
       end;
     end;
 end;
// Question 6 - 13
//4 marks for a successful delete - the delete does not need to be in a
separate method
 procedure TProject.deleteStudent(inP: Integer);
   sArr[inP] := sArr[sCount - 1];
   sort();
                         // correct code to delete item
   sCount := sCount -1; // decrement sCount
 end;
//ALTERNATE deleteStudent
 procedure TProject.deleteStudent(inP: Integer);
 begin
   for i:= inP to sCount do
       sArr[i] := sArr[i+1];  // correct code to delete item
                                // decrement sCount
   sCount := sCount -1;
 end;
// 9 Marks to process array
 function TProject.correctNumbers() : string;
   amountToDelete, i, randPos : integer;
   deletedList : string;
 begin
                            // check if items need to be deleted
   if (sCount > max) then
     amountToDelete := sCount - max; // determine amount to delete
     deletedList := 'Students removed:' + #13#10;
     for i := 1 to amountToDelete do // loop through array
     begin
       randPos := Random(sCount)+1;
                                  // generate random number within range
       deletedList := deletedList + sArr[randPos].toString() + #13#10;
                                      // create string with deleted items
```

```
deleteStudent(randPos);
                         // call delete method OR delete code is placed here
     end:
     Result := deletedList + #13#10 + 'Remaining students:' + #13#10
              + toString();
     // remaining string created both strings correct with headers
   end;
 end;
// Question 7 - 9
//6 marks to instantiate GradeArray gArr
 function TProject.createGradeArray(inH : string) : string;
                                                   // correct header
 var
   grade : integer;
   hours : double;
 begin
   while Pos(';', inH) > 0 do
   begin
      grade := StrToInt(Copy(inH, 1, Pos(';', inH) -1 ));
     Delete(inH, 1, Pos(';', inH));
      if (Pos(';', inH) <> 0) then
     begin
       hours := StrToFloat(Copy(inH, 1, Pos(';', inH) -1));
       Delete(inH, 1, Pos(';', inH));
     end
     else hours:= StrToFloat(inH);
                                        // fields extracted correctly
     gArr[grade-7] := TGrade.Create(grade, hours);
                                        // gArr correctly instantiated
   Result := displayAllGradeArray; // Return a string
 end;
//3 marks to create a string of gArr - this does not need to be a separate
method function TProject.displayAllGradeArray() : string;
 var
   i : integer;
 begin
   Result := #13#10 + 'Grade Totals:' + #13#10; // Correct heading
   for i:=1 to 5 do
                                          // loop to process Grade array
     Result := Result + gArr[i].toString() + #13#10;
                                       // objects correctly combined
 end;
end.
```

QUESTION 5 & 8 PROJECTUI CLASS

```
// Question 5.1 - 1
                          // correct header
program ProjectUI;
{$APPTYPE CONSOLE}
{$R *.res}
uses
  System.SysUtils,
  uStudent in 'uStudent.pas',
  uProject in 'uProject.pas',
  uGrade in 'uGrade.pas';
var
  clothes : TProject;
  temp : string;
begin
  try
    // Question 5.2 - 1
    clothes := TProject.Create('Collect old clothes', 'Indoor', 12);
    // project correctly instantiated
    // Question 5.3 - 2
    clothes.sort();
    WriteLn(clothes.toString());
    // sort method called and object displayed
    // Question 8.1 - 1
    WriteLn(clothes.correctNumbers());
    // call correctNumbers correctly
    // Question 8.2 - 2
    Writeln(clothes.createGradeArray ('9;53;12;13;8;72;11;90;10;34'));
    // call createGradeArray correctly
    Readln(temp);
  except
    on E: Exception do
      Writeln(E.ClassName, ': ', E.Message);
  end;
end.
```

OUTPUT

SECTION A

QUESTION 1.1

StudentID	StudentName	IsSenior
53	Amy Radebe	TRUE
30	Andrea Badenhorst	TRUE
54	Brendan Smit	TRUE
1	Jacob Ncube	TRUE
25	Joshua Jacobs	TRUE
22	Julia Hudson	TRUE
3	Karabo Mlangeni	TRUE
47	Kendal Buys	TRUE
12	Kenneth Motala	TRUE
17	Kobus Venter	TRUE
37	Laetitia Adams	TRUE
38	Lesego Semenya	TRUE
11	Michael Stemmet	TRUE
49	Mikyle Sithole	TRUE
43	Mthokozisi Kumalo	TRUE
39	Nina Ntsimango	TRUE
9	Patricia Davids	TRUE
16	Penny Mbele	TRUE
44	Prince Dube	TRUE
20	Rethabile Mokone	TRUE
46	Sego Dlamini	TRUE
27	Somizi Baloyi	TRUE
8	Steven Govender	TRUE
51	Tasneem Morkel	TRUE
33	Vicki de Beer	TRUE
41	Wian Oosthuizen	TRUE
18	Wiseman Legodi	TRUE

QUESTION 1.2

	ectName
SAT	English tutoring program
FRI	Mathematics tutorials

QUESTION 1.3 Data may be formatted differently on your computer

Registration D Expr. 1001

RegistrationID	Expr1001
1	1.083333333333333
2	0.8928571428571429
3	0.8
4	0.7857142857142857
5	0.84375
6	1.09375
7	0.708333333333334
8	0.9038461538461539
9	0.925
10	0.958333333333334
11	0.93181818181818
12	1.066666666666667
13	1.125
14	0.8125
15	1.0
16	1.0

Continue on the next page

DegistrationID	Avalleure
RegistrationID	AveHours
	0.875
18	0.5
19	0.833333333333334
20	1.125
21	0.8846153846153846
22	1.5
23	0.93181818181818
24	1.5
25	0.90909090909091
26	0.5
27	0.86363636363636
28	1.0
29	0.5
30	1.5
31	0.5
32	0.75
33	0.8
34	0.95
35	0.5
36	1.5
37	0.8
38	1.5
39	1.055555555555556
40	0.7
41	1.0
42	1.5
43	0.8
44	0.9444444444444444
45	0.75
	1.0
46	
47	0.5
48	1.0
49	0.6
50	1.0
51	1.5
52	0.5
53	0.833333333333334
54	0.5
55	1.5
56	1.2
57	0.94444444444444
58	0.9
59	0.875
60	0.875
61	0.916666666666666
62	0.8125
63	0.9375
64	0.96875
65	1.5
66	0.5
67	0.9285714285714286
68	0.9285714285714286
69	1.0
70	0.8125
71	0.5
72	0.5
73	1.5
, ,	1.0

QUESTION 1.4

Day	
FRI	
MON	
SAT	
THU	
TUE	•
WED	

QUESTION 1.5

•	
ProjectName	StudentName
THU Sandwich feeding scheme	Jacob Ncube
SAT English tutoring programme	Karabo Mlangeni
SAT River clean up	Penny Mbele
FRI Mathematics tutorials	Kenneth Motala
TUE Knitting for moms	Patricia Davids
MON Old Age Home Visit	Steven Govender
WED Recycling Programme	Wiseman Legodi
FRI Textbook Collection	Joshua Jacobs

QUESTION 1.6

StudentID	TotalHours
1	13,5
2	16,25
3	8,5
4	17.5
5	9,25
2 3 4 5 6 7	9,25 13,5 10,5 7 5,5
7	10,5
8	7
9	5,5
10	11,5
11	19,5 10,25
12	10,25
13	14
14	16,5
13 14 15	14 5
16	10
17	18,25
18	6,5
19	10 18,25 6,5 7
20	3,/5
21	10
22 23 24	12,5 11,75
23	11,75
24	10
25	15
26	11,5
27	6
28	4
29	17,5
30	11
31	14,5
32	7,5
33	15
35 36	15
36	6
37	16
38	8

StudentID	TotalHours
39	9,5
40	8,5
41	10
42	15
43	10,75
44	6
45	8
46	13
47	6
49	10,5
50	9
51	12,5
52	4,5
53	8
54	8,25
55	13

QUESTION 1.7

StudentName	
Khaya Mokoena	
Mishka Hassen	

QUESTION 1.8

Proj	ectName	
TUE	Knitting	for moms
FRI	Textbook	Collection

QUESTION 1.9

StudentName	NumProjects
Bhule Mbasa	2
Blessing Mkhize	2
Conrad Snyman	2
Frans Theron	2
Heinriche Pretorius	2
Joshua Jacobs	2
Kobus Venter	2
Laetitia Adams	2
Mahmood Chetty	3
Mary-anne Muir	2
Michael Stemmet	2
Mikyle Sithole	2
Mthokozisi Kumalo	2
Nikita van Wyk	2
Nina Ntsimango	2
Patience Madonsela	2
Sego Dlamini	2
Tasneem Morkel	2
Vicki de Beer	2

SECTION B

FINAL OUTPUT

Name: Collec Maximum:	t old 12	clothes	
		Tudoou	э г
Pettie, F	8	Indoor	2.5
Maler, S	8	Both	0.0
Honiford, E	8	Indoor	5.5
Doyle, J	9	Both	4.0
Boyder, L	9	Both	9.5
Delaney, B	9	Indoor	3.0
Leaby, T	9	Both	7.0
Shorts, H	9	Both	12.0
Rabey, C	10	Indoor	4.0
Janson, C	10	Both	7.0
Scotty, M	10	Indoor	1.0
Leaby, G	10	Indoor	3.0
Morvel, M	11	Both	1.0
Heriot, L	11	Indoor	3.5
McCalum, A	11	Both	5.0
Monahan, B	12	Indoor	5.0

Students removed:

```
// this list will vary depending on which students were randomly selected Leaby, T 9 Both 7.0 Shorts, H 9 Both 12.0 Scotty, M 10 Indoor 1.0 Pettie, F 8 Indoor 2.5
```

Remaining students:

Name: Collect old clothes

Maximum: 12

// this list will vary depending on which students were randomly deleted Maler, S $\,$ 8 $\,$ Both $\,$ 0.0

Maler, S	8	Both	0.0
Honiford, E	8	Indoor	5.5
Doyle, J	9	Both	4.0
Boyder, L	9	Both	9.5
Delaney, B	9	Indoor	3.0
Rabey, C	10	Indoor	4.0
Janson, C	10	Both	7.0
Leaby, G	10	Indoor	3.0
Morvel, M	11	Both	1.0
Heriot, L	11	Indoor	3.5
McCalum, A	11	Both	5.0
Monahan, B	12	Indoor	5.0

Grade Totals:

Grade:8 total hours 82.0
Grade:9 total hours 63.0
Grade:10 total hours 44.0
Grade:11 total hours 100.0
Grade:12 total hours 13.0