Province of the
EASTERN CAPE
EDUCATION

DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)

HOME SCHOOLING ASSESSMENT 16
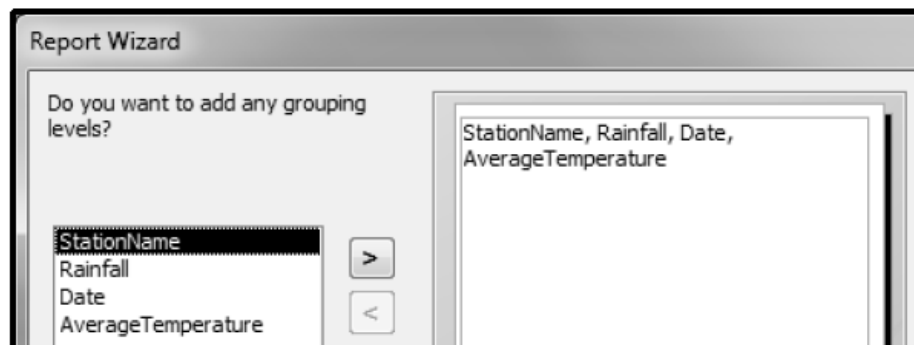
SUBJECT	COMPUTER APPLICATIONS TECHNOLOGY	GRADE	12	DATE	10/7/20
TOPIC	Assessment 16: Integrated Scenario	TERM 2 REVISION		TERM 4 CONTENT	✓
TIME ALLOCATION	45 minutes (25 marks)				
INSTRUCTIONS	1. You will need a book to write your answers in and something to write with. 2. Answer the following questions in your workbook in full sentences where applicable. 3. Do not refer back to your textbook while answering these questions.				

1   The weather bureau must purchase a printer for office use.

     Name TWO specifications to consider when purchasing a printer, other than
     cost.   (2)

2   The computers at the weather bureau should be protected from power surges.

     2.1   What kind of damage can a power surge do to a computer?   (1)

     2.2   Suggest TWO environmentally friendly ways in which to dispose of
            a damaged computer.   (2)

3   Strict security measures should be put in place by the network administrator
     so that not all employees have access to the server at the weather bureau.

     3.1   Name the type of user that works with high-end hardware and
            software.   (1)

     3.2   The network administrator sets up access rights and a firewall.

            Give TWO reasons why physical access to the server room should
            be restricted as well.   (2)

     3.3   Give TWO reasons why the network administrator disabled the
            unused USB ports on the employees' computers.   (2)

4   Discuss TWO benefits of grid computing for the weather bureau.   (2)

5   The network administrator should always keep the software on the computers
     of the weather bureau updated.

     5.1   A weather analysis application is returning incorrect results after
            a recent update.

            Give a term for the cause of the problem AND suggest a solution.   (2)

     5.2   Give TWO reasons why the network administrator may not want an
            operating system to automatically download and install updates on
            the networked computers.   (2)

.6   Backing up is important so that data is not lost.

1

6.1 Give TWO reasons why the weather bureau should make automatic backups. (2)

6.2 Suggest TWO guidelines to be included in the policy for making backups at the weather bureau, other than making regular backups or setting automatic backups. (2)

7 Each weather station must embed the location where photographs were taken into these photographs.

7.1 What technology allows for obtaining accurate location data? (1)

7.2 Give the term for the data embedded into a picture file that provides the location of where a photograph was taken. (1)

8 The following database table structure was created to capture daily temperatures:

StationID	Short Text
StationName	Short Text
Coordinates	Short Text
Date	Date/Time
AverageTemperature	Number
Rainfall	Number

8.1 Only numbers will appear in the **StationID** field, e.g. 3452, 0198, 187.

Why is the data type of this field Short Text and not Number? (1)

8.2 The following screen appeared during the creation of a report:

Report Wizard

Do you want to add any grouping levels?

StationName, Rainfall, Date, AverageTemperature

StationName
Rainfall
Date
AverageTemperature

What steps should be followed to show a list of the rainfall values in ascending order for each station? (2)

[25]