Task Title: Calculate the Average Age of Students in a Class

OALCF Cover Sheet – Practitioner Copy

Learner Name: _____

Date Started: _____

Date Completed: _____

Successful Completion: Yes ☐ No ☐

Goal Path: Employment ☐ Apprenticeship ☐

Secondary School ☐ Post Secondary ☐ Independence ☐

Task Description: Calculate the mean, median, mode and range of ages for a dataset of students in a class.

Main Competency/Task Group/Level Indicator:

- Understand and Use Numbers/Manage data/C4.2

Materials Required:

- Pen/pencil and paper and/or digital device
- Calculator or digital device with calculator function

Notes for Instructors/Practitioners

For this task, the learner will need to understand the terms mean, median, mode and range.

Learner Information

When interpreting data, you may need to calculate the mean, median or mode.

Scan the "Demographic Information about Learners Enrolled in an LBS Program at an Adult Learning Centre".

Demographic Information about Learners Enrolled in an LBS Program at an Adult Learning Centre

Name	Age	Sex
Anthony	55	M
Veronica	23	F
Martin	35	M
Tony	44	M
Beth	27	F
Naomi	34	F
Terry	64	M
Roland	44	M
Wendy	38	F

Work Sheet

Task 1: What is the mean age of all students in this class?

Answer:

_____

Task 2: What is the mean age of male students in this class?

Answer:

_____

Task 3: What is the mean age of female students in this class?

Answer:

_____

Task 4: What is the median age of all students in this class?

Answer:

_____

Task 5: What is the median age of male students in this class?

Answer:

_____

Task 6: What is the median age of female students in this class?

Answer:

_____

Task 7: What is the mode age for all students in this class?

Answer:

_____

Task 8: What is the mode age for male students in this class?

Answer:

_____

Task 9: What is the range for all students in this class?

Answer:

_____

Answers

Task 1: What is the mean age of all students in this class?

Answer: 55+23+35+44+27+34+64+44+38=364. 364/9 = 40.4
The mean age of all the students in this class is 40.4.

Task 2: What is the mean age of male students in this class?

Answer: 55+35+44+64+44=242. 242/5 = 48.4
The mean age of male students in this class is 48.4.

Task 3: What is the mean age of female students in this class?

Answer: 23+27+34+38=122. 122/4= 30.5
The mean age of female students in this class is 30.5.

Task 4: What is the median age of all students in this class?

Answer: 23   27   34   35   **38**   44   44   55   64
The median age of all the students in this class is 38.

Task 5: What is the median age of male students in this class?

Answer: 35   44   **44**   55   65
The median age of male students in this class is 44.

Task 6: What is the median age of female students in this class?

Answer: 23   **27**   **38**   38
27+38 = 65
65/2 = 32.5
The median age of female students in this class is 32.5.

Task 7: What is the mode age for all students in this class?

Answer: The mode for all the students is 44.

Task 8: What is the mode age for male students in this class?

Answer: The mode for the male students is 44.

Task 9: What is the range for all students in this class?

Answer: 64-23 = 41. The range for the ages of all the students is 41.

Performance Descriptors

Levels	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
C4.2	Calculates using numbers expressed as whole numbers, fractions, decimals, percentages, and integers			
	finds ranges for data sets			
	calculates averages (mean) and percentages			
	identifies medians and modes			

This task: Was successfully completed ☐ Needs to be tried again ☐

Learner Comments:

Instructor (print):   Learner (print):

_____   _____

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