Task-based Activity Cover Sheet

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

Learner Name:
Date Started: **Date Completed:**
Successful Completion: Yes___   No___
Goal Path: Employment___ Apprenticeship___ Secondary School ✓ Post Secondary ✓ Independence___

Task Description:
Calculate the average age of students in a class.

Competency:	**Task Group(s):**
C: Understand and Use Numbers	C4: Manage Data

Level Indicators:
C4.2 Make low-level inferences to organize, make summary calculations and represent data

Performance Descriptors: see chart on last page or click here.

Links to skill building activities: see the last page or click here.

Materials Required:
- Paper and pen
- Calculator
- Question sheet (attached)
- Answer sheet (attached)
- Skill building: the learner will need to understand the terms average, mean, median, mode and range

ESKARGO:
- Finds ranges for data sets
- Calculates averages (mean) and percentages
- Identifies medians and modes

Attitudes:

Practitioner,

We encourage you to talk with the learner about attitudes required to complete this task set. The context of the task has to be considered when identifying attitudes. With your learner, please check one of the following:

□ Attitude is not important   □ Attitude is somewhat important   □ Attitude is very important

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Mean, median and mode are 3 kinds of averages that students in secondary and post-secondary programs need to be able to determine. Students use these averages to find trends that occur in data. Look at the "Demographic Information about Learners Enrolled in an LBS Program at an Adult Learning Centre"

Learner Information and Tasks:

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

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

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

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

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

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

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

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

Task 10:   What is the range for all students in this class?

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

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Answer Key

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

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?

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?

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?

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?

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?

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?

                                       The mode for all the students is **44**.

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

The mode for the male students is **44.**

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

64-23 = 41

The range for the ages of all the students is **41**.

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	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 Signature**

Skill Building Activities

Links to Online Resources:

https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-data-statistics/mean-and-median/v/statistics-intro-mean-median-and-mode   - 8 minute video on calculating mean, median and mode

https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-data-statistics/mean-and-median/v/mean-median-and-mode 4 minute video on mean, median, mode

https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-data-statistics/mean-and-median/e/calculating-the-mean   - Practice questions for calculating mean, median and mode

https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-data-statistics/mean-and-median/e/calculating-the-mean-from-various-data-displays   - Interactive questions on calculating mean and median

https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-data-statistics/mean-and-median/e/find-a-missing-value-given-the-mean - Interactive questions for calculating mean and median

https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-data-statistics/mean-and-median/e/calculating-the-median   - Interactive questions for calculating mean and median

https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-data-statistics/mean-and-median/e/calculating-the-median-from-data-displays   - Interactive questions for calculating mean and median

http://www.mathtv.com/   - Basic Mathematics- Whole Numbers- Word Problems

https://www.youtube.com/watch?v=oNdVynH6hcY – Mean, Median and Mode song (1:36 minutes)

LearningHUB online courses available:

- **Math, Independent Study (Assigned by practitioner after assessment)**
    o Addition/Subtraction Asg. 2
    o Multiplication/Division Assignment
- **Live Classes (SABA)** – Mean, Median & Mode – A Measure of Central Tendency; Multiplication; Division; Math Stories

*To access LearningHUB courses, learners must register for the LearningHUB e-Channel program by completing the registration form on their website and completing the course selection (page 2 of the registration form): https://www.learninghub.ca/get_registered.aspx

*To Access LearningHUB Course Catalogue:
http://www.learninghub.ca/Files/PDF-files/HUBcoursecatalogue,%20December%2023,%202014%20revision.pdf