Exercise 1:

Steps: Ask them how much they make per hour.

Ask how many hours they work per week.

Multiply the two numbers together to get their weekly wage.

Multiple that number by 4.

Result is the monthly income.

Psuedo:

START

Float wageHr;

Float hoursWeek;

Float weekWage;

Float monthWage;

wageHr = user inputs wage per hour;

hoursWeek = user input hours worked per week;

wageHr\*hoursWeek=weekWage;

weekWage\*4=monthWage;

print monthWage;

END

Output (income)

Z \* 4 (weeks/month) = income

X \* Y = Z

(z = wage per week)

Ask how many hours/week  
(y)

Ask hourly wage   
(x)

Flowchart:

Exercise 2:

Steps: Ask for student name

Ask for student final GPA

Get standard for pass/fail for course

Compare students grade to pass/fail

Student has either passed or failed

//

Psuedo:

START

String studentName;

Double finalGPA;

Double passFail = 2.5;

studentName = User inputs their name;

finalGPA = user inputs their GPA;

Compare finalGPA to passFail;

If finalGPA is equal to or above passFail

Student passes

If not:

Student fails

END

no

yes

Get final GPA for class

Get standard for pass/fail (2.5)

Compare GPA to standard

Is GPA at or above passing grade?

Get name

Fail :c

Pass!

Exercise 3:

Steps:

Get value 1

Get value 2

Check values for 0

If 0 value found, throw message

If not found, do multiplication

Gib result

Finish

Pseudo:

START

Double num1;

Double num2;

User inputs first number;

User inputs second number;

Computer checks if num1 or num2 = 0;

If either are = 0, print message “0”;

END

If not, multiple num1 and num2;

Print result;

END

no

yes

Get value 2

Is at least one value a 0?

Result

Output message 0

Value 1 \* Value 2

Get value 1

Exercise 4:

Steps:

Get first number.

Get second number.

Check to see if second number is 0.

If 0, give message “you cant do that”.

If not 0, proceed with division.

Done.

Pseudo:

START

Double division1;

Double division2;

User inputs value for division1;

User inputs value for division2;

Is division2 a 0?

Yes – Print message for 0.

END

No – Divide division1 by division2.

Print result.

END

yes

no

Result

Value 1 / Value 2

Output message 0

Is value 2 a 0?

Get value 2

Get value 1

Exercise 5:

Steps:

Get first number.

Get second number.

Check if first number is greater than the second number.

If it is, output first number.

If it isn’t output second number.

Pseudo:

START

Double number1;

Double number2;

User inputs number1;

User inputs number2;

If number1 > number2

Print “number1 is the larger number”

If not,

Print “number2 is the larger number”

END

no

yes

Is value X > value Y?

Get value x

Output value y

Output value x

Get value y

Exercise 6:

Steps:

Get first number.

If the remainder of first number divided by 2 = 0,

Print “your number is even”

If it’s not divisible by 2, print “your number is odd”.

X%2 == 0;

Pseudo:

START

Double oddEven;

Get user input for number;

If oddEven / 2 remainder result is 0;

Print “your number is even”;

If not,

Print “your number is odd”;

END

X % 2 = result

no

yes

Is result = 0?

Get value x

Print “your number is odd”

Print “your number is even”