Ejercicio 2) Mensualidad

Ana María es abuela de 4 niñas de diferentes edades: Ana Paula, Lucía, Milena y Jazmín. Desea otorgarles una mensualidad proporcional a las edades de las niñas. El monto total mensual que desea otorgarles depende de sus ingresos.

¿Cuánto dinero debe darle a cada niña?

Estrategia

1. Ingresar la edad de cada niña

2. Ingresar el dinero de la mensualidad

3. Sumar las edades de las niñas

4. Dividir el total de las edades sobre cada edad particular dándonos un porcentaje

5. Asignar ese porcentaje al total final de cada niña sobre el dinero

Ambiente

Entrada:

n1 (niña 1)

n2 (niña 2)

n3 (niña 3)

n4 (niña 4)

m (mensualidad)

Proceso

te (total edad de las niñas)

p1 (porcentaje de la niña 1)

p2 (porcentaje de la niña 2)

p3 (porcentaje de la niña 3)

p4 (porcentaje de la niña 4)

Salida

tm1 (total mensualidad de la niña 1)

tm2 (total mensualidad de la niña 2)

tm3 (total mensualidad de la niña 3)

tm4 (total mensualidad de la niña 4)

Prueba de escritorio

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| nro | n1 | n2 | n3 | n2 | m | te | P1 | P2 | P3 | P4 | tm1 | tm2 | tm3 | tm4 | Commentarios y salida |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | "Por favor indicar la edad de Ana Paula:" |
| 2 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  | "Por favor indicar la edad de Lucía:" |
| 4 | 10 | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 10 | 12 |  |  |  |  |  |  |  |  |  |  |  |  | "Por favor indicar la edad de Milena:" |
| 6 | 10 | 12 | 31 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 | 10 | 12 |  |  |  |  |  |  |  |  |  |  |  |  | "Por favor indicar la edad de Jazmín:" |
| 8 | 10 | 12 | 31 | 21 |  |  |  |  |  |  |  |  |  |  |  |
| 9 | 10 | 12 | 31 | 21 |  |  |  |  |  |  |  |  |  |  | "Por favor introduzca el valor de la mensualidad (si quiere agregar centavos pongalos con un punto y no con coma)" |
| 10 | 10 | 12 | 31 | 21 | 4000.50 |  |  |  |  |  |  |  |  |  |  |
| 11 | 10 | 12 | 31 | 21 | 4000.50 | 74 |  |  |  |  |  |  |  |  |  |
| 12 | 10 | 12 | 31 | 21 | 4000.50 |  | 0.13513513513513513513513513513514 |  |  |  |  |  |  |  |  |
| 13 | 10 | 12 | 31 | 21 | 4000.50 |  |  | 0.16216216216216216216216216216216 |  |  |  |  |  |  |  |
| 14 | 10 | 12 | 31 | 21 | 4000.50 |  | 0.13513513513513513513513513513514 | 0.16216216216216216216216216216216 | 0.41891891891891891891891891891892 |  |  |  |  |  |  |
| 15 | 10 | 12 | 31 | 21 | 4000.50 |  | 0.13513513513513513513513513513514 | 0.16216216216216216216216216216216 | 0.41891891891891891891891891891892 | 0.28378378378378378378378378378378 |  |  |  |  |  |
| 16 | 10 | 12 | 31 | 21 | 4000.50 |  | 0.13513513513513513513513513513514 | 0.16216216216216216216216216216216 | 0.41891891891891891891891891891892 | 0.28378378378378378378378378378378 | 540.608108108 |  |  |  |  |
| 17 | 10 | 12 | 31 | 21 | 4000.50 |  | 0.13513513513513513513513513513514 | 0.16216216216216216216216216216216 | 0.41891891891891891891891891891892 | 0.28378378378378378378378378378378 | 540.608108108 | 648.729729729 |  |  |  |
| 18 | 10 | 12 | 31 | 21 | 4000.50 |  | 0.13513513513513513513513513513514 | 0.16216216216216216216216216216216 | 0.41891891891891891891891891891892 | 0.28378378378378378378378378378378 | 540.608108108 | 648.729729729 | 1675.885135135 |  |  |
| 19 | 10 | 12 | 31 | 21 | 4000.50 |  | 0.13513513513513513513513513513514 | 0.16216216216216216216216216216216 | 0.41891891891891891891891891891892 | 0.28378378378378378378378378378378 | 540.608108108 | 648.729729729 | 1675.885135135 | 1135.27702702 |  |
| 20 | 10 | 12 | 31 | 21 | 4000.50 |  | 0.13513513513513513513513513513514 | 0.16216216216216216216216216216216 | 0.41891891891891891891891891891892 | 0.28378378378378378378378378378378 | 540.608108108 | 648.729729729 | 1675.885135135 | 1135.27702702 | "La mensualidad de Ana paula es 540.608108 pesos." |
| 21 | 10 | 12 | 31 | 21 | 4000.50 |  | 0.13513513513513513513513513513514 | 0.16216216216216216216216216216216 | 0.41891891891891891891891891891892 | 0.28378378378378378378378378378378 | 540.608108108 | 648.729729729 | 1675.885135135 | 1135.27702702 | "La mensualidad de Lucía es 648.729729729 pesos." |
| 22 | 10 | 12 | 31 | 21 | 4000.50 |  | 0.13513513513513513513513513513514 | 0.16216216216216216216216216216216 | 0.41891891891891891891891891891892 | 0.28378378378378378378378378378378 | 540.608108108 | 648.729729729 | 1675.885135135 | 1135.27702702 | "La mensualidad de Milena es 1675.885135135 pesos." |
| 23 | 10 | 12 | 31 | 21 | 4000.50 |  | 0.13513513513513513513513513513514 | 0.16216216216216216216216216216216 | 0.41891891891891891891891891891892 | 0.28378378378378378378378378378378 | 540.608108108 | 648.729729729 | 1675.885135135 | 1135.27702702 | "La mensualidad de Jazmín es 1135.27702702 pesos." |