

# MathFLIX CHALLENGE

## Statistics: Mean or Average Application

Use the information to complete the table and answer each question.

<u>Guest</u>	<u># of Guests</u>	<u>Mean</u>	<u>Sum of Ages</u>	<u>Ages of Guests</u>
<b>?</b>	<b>3</b>	<b>10</b>	<b>30</b>	<b>?</b>
<b>Kevin</b>	<b>4</b>	<b>10</b>	<b>40</b>	<b>10</b>
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The COUNTDOWN teachers decided to throw a surprise birthday party for Mary. The mean age of the first 3 people to arrive is 10. Her son, Kevin, is the 4th guest to arrive. His arrival does not change the mean.  
*How old is Kevin?* \_\_\_\_\_

Mary's daughter, Colleen, is the the 5th guest to arrive. Now the mean age of the guests is 9.  
*How old is Colleen?* \_\_\_\_\_

Mary's oldest son, Matt, arrives and raises the mean age to 11. Now there are 6 guests at the party.  
*How old is Matt?* \_\_\_\_\_

The 7th guest to arrive is Mary's son, Paddy, who is 18 years old.  
*What is the mean age of the guests now?* \_\_\_\_\_

Mary's husband Ron is the 8th guest. When he arrives, the mean age changes to 16.  
*How old is Ron?* \_\_\_\_\_

Katie is the 9th guest. Now Mary's children are all here. The mean age stays the same when Katie arrives.  
*How old is Katie?* \_\_\_\_\_

Mary arrives at the surprise party and the mean age changes to 19.  
*What birthday is Mary celebrating?* \_\_\_\_\_

- *What is the median age of Mary's family?* \_\_\_\_\_
- *What is the range in age for Mary's family?* \_\_\_\_\_
- *What is the mode for the age of Mary's family?* \_\_\_\_\_